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List of National and International Conference Report
(2017-18 to 2020-21)

ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)
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# Poornima College of Engineering, Jaipur List of Student Participation in Various Activities

S.N.	Name of the Conference	Session	Date	Page No
1	Report on Sustainable Energy, Environment and Green Technologies (ICSEEGT 2022)	2021-22	24-25/06/2022	3-66
2	Report on Artificial Intelligence: Advances and Applications, ICAIAA-2022	2021-22	23-24/4/2022	67-79
3	Report on International Conference on Recent Advances and Innovations in Engineering	2021-22	01-03/12/2021.	80-122
4	Report on Artificial Intelligence Advances and Applications	2020-21	27-28/03/ 2021	123-133
5	Report on Sustainable Energy, Environment and Green Technologies (ICSEEGT 2021)	2020-21	05-06/03/2021	134-162
6	Report on Recent Advances and Innovation in Engineering (ICRAIE- 2019)	2019-20	28-29/11/2019	163-179
7	Report on Artificial Intelligence Advances and Applications (ICAIAA-2019)	2018-19	28-29/06/2019	180-190
8	Report on Advances in Refrigeration & Energy Systems	2017-18	7-8/04/2018	191-222



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# **International Conference**

# **A Report on 2-day International Conference**

**TITLE AND DURATION:** "Sustainable Energy, Environment and Green Technologies (ICSEEGT 2022)" (June 24-25, 2022)

**SPONSORS: NIL** 

**SUPPORTERS: NIL** 

**ORGANIZING PARTNERS: NIL** 

**PUBLISHER(S):** Springer & IOP Conference Series

#### ISBN / PART NO. / INDEXING AGENCY:

Name: IOP Conference Series: Earth and Environmental Science (EES)

Website: https://iopscience.iop.org/journal/1755-1315 (Online ISSN: 1755-1315, Print ISSN:

1755-1307).

**Scope:** <a href="https://iopscience.iop.org/journal/1755-1315/page/scope">https://iopscience.iop.org/journal/1755-1315/page/scope</a> <a href="Indexing:https://www.scopus.com/sourceid/19900195068">Indexing:https://www.scopus.com/sourceid/19900195068</a>

#### Special Issue (Direct Submission)

Name: Environmental Science and Pollution Research (ESPR)

Website: <a href="https://www.springer.com/journal/11356/">https://www.springer.com/journal/11356/</a> (Electronic ISSN 1614-7499)

Scope: <a href="mailto:Environmental Science">Environmental Science</a> and Pollution Research | Aims and scope (springer.com)

Indexing: <a href="https://www.scimagojr.com/journalsearch.php?q=23918&tip=sid&clean=0">https://www.scimagojr.com/journalsearch.php?q=23918&tip=sid&clean=0</a>

#### **THEMES / TRACKS:**

Track 1: Sustainable/Renewable Energy				
Alternative Fuels	Internal Combustion Engines			
Atternative 1 deis	Performance with Bio-Fuels			
Bio-Energy, Biomass, and	Renewable Energy Sapply and Bundano			
Bio-Fuels	Renewable Energy Supply and Burgers Technological Andrews Burgers Burg			
Energy Conservation	Sustainable and Renewable Energy			
Technologies	Solal Photovoltaic Jed Colon Maria			
Energy Forecasting and	Sustainable and Denayyable Energy			
Optimization Models	Sustainable and Renewable Energy			

Energy Management Systems	Sustainable Building Technologies
Energy storage concepts and materials	Sustainable Solutions
Environmental Sustainability and Development	Waste Energy Utilization
Hydrogen as a Future Energy Source	

Track 2: Environment and Transportation			
Advanced Construction	Intelligent Transport, Smart Traffic		
Material	Control		
Climate Change and the	Low Carbon Economy and Society		
Urban Environment	, ,		
Construction Technology	Remote Sensing and Gis		
and Equipment			
Disaster and Supply Chain	Road and Bridge Engineering		
Management	Road and Bridge Engineering		
Environment Impact	Solid Waste Management		
Assessment	Solid waste ivialiagement		
Environmental Engineering	Surface and Ground Water Studies		
and Management	Surface and Ground water Studies		
Global Warming and	Sustainable Transportation Infrastructures		
Greenhouse Gas Mitigation	Sustainable Transportation Infrastructures		
Greenhouse Effect and	Transportation Safaty		
Climate Change	Transportation Safety		
Highway Design and Safety			
Measures, Mega Structure	Wastewater Management and Treatment		
Design			

Track 3: Green Technologies and Urban Development			
Advances in Structural Designing	Green Nanotechnology		
Emerging and Advanced Green Energy Technologies	Green Urbanization		
Green Building Technologies	Rural Development through Green Energy		
Green Design, Products, and Manufacturing Processes	Town Planning		
Green Energy Policies and Programs	Urban Infrastructures		
Green Energy Trade for Economic Development	Urban Policies and Management	dele	
	Dr. Mahesh Bun Dr. Mahesh BE. ME Director Director Poornima College of En ISI-6, Shapura, Jain G		

#### **OBJECTIVES:**

The conference on Sustainable Energy, Environment, and Green Technologies (ICSEEGT-2022) is the second International Conference organized at Poornima College of Engineering, Jaipur, Rajasthan, India. This conference aims to bring researchers from academia, government agencies, research laboratories, and the corporate sector together to present their research work in sustainable and renewable energy, environment, and green technologies. Since Green growth is the pursuit of economic development in an environmentally sustainable manner. If the development goal is to improve living standards, access modern energy services, and use energy more efficiently, green growth must play a key role. For this aim, the conference ICSEEGT 2022 can be a great platform to promote research in the subject area and exchange new ideas in these fields among academicians, engineers, scientists, and practitioners across the world.

#### **EXPECTED OUTCOMES:**

The conference will strengthen contacts and foster cooperation among accelerator-based science and application researchers, accelerator manufacturers, facility operators and the coordinators of academic programs in the accelerator sciences, leading to a comprehensive review of the status of accelerator-based research and applications. The conference is expected to generate ideas that will form the basis of future ICSEEGT-2022 programs in the area of research and applications using accelerator technologies.

### BROCHURE / POSTER / LEAFLET / FLYER:



# PROGRAM OUTLINE/ PROGRAM SCHEDULE:

# CONFERENCE SCHEDULE (HYBRID MODE) DAY-I, FRIDAY, JUNE 24, 2022

TIME	EVENT	GUEST/SPEAKER/HOST	Session Link (MS
(IST)			Teams)/Venue
8:30 AM- 9:00 AM	Registration and Gathering of Participants		
9:00 AM– 9:45 AM	Inaugur al Ceremo ny	Chief Guest:  Professor S.A Sherif, Department of Mechanical and Aerospace Engineering, University of Florida, USA  Guest of Honor (s):  1. Professor L.M. Das, Former Professor, Centre for Energy Studies, Indian Institute of Technology, Delhi, India  2. DR. L. N. Thakural, Senior Scientist, Surface Water Division, National Institute of Hydrology, Roorkee, India  Session Host(s):  Dr. Pooja Gupta and Mr. Sanjay Kumawat, Poornima College of Engineering, Jaipur, India	Offline Mode: PCE, CAMPUS (Seminar Hall, CG-05) + Virtual Mode: MS Teams Platform https://tinyurl.com/ICS EEGT-2022
9: 45AM- 10:15 AM		Session Break	
10:15 AM- 10:15 AM- 11: 00AM	Keynot e Session -I	Title of Talk: Energy Efficient and Environment-Friendly Porous Radiant Burners for Cooking and Industrial Applications Speaker: Professor P. Muthukumar, Department of Mechanical Engineering, Indian Institute of Technology, Guwahati, India Session Host: Mr. Kalpit Jain, Poornima College of Engineering, Jaipur, India	https://tinyurl.com/ICS EEGT-2022
			Or Mahesh Bunden

11:45 AM-		Session Chair(s): Dr. Narayan Lal Jain & Dr. Pran Nath Dadhich, Poornima College of Engineering, Jaipur, India Moderator: Mr. Rahul Sharma, Poornima College of Engineering, Jaipur, India	
12:15PM		Session Break	
	Technic al Session- II	Session Chair: Dr. Salifu Tahiru Azeko, Tamale Technical University, Tamale, Ghana Moderator: Mr. Sanjay Kumawat, Poornima College of Engineering, Jaipur, India	https://tinyurl.com/ TS-2- ICSEEGT- 2022
	Technic al Session- III	Session Chair: Dr. Tanuj Chopra,  Thapar Institute of Engineering and Technology, Patiala, India Moderator: Mr. Divya Vishnoi, Poornima College of Engineering, Jaipur, India	https://tinyurl.com/ TS-3- ICSEEGT- 2022
12:15 PM- 2:15 PM	Technic al Session- IV	Session Chair (s): (s):  1. Dr. Puneet Kumar Jain, National Institute of Technology, Rourkela, India  2. Dr. Ram Niwash Mahia, National Institute of Technology, Hamirpur, India Moderator: Dr. Monika Vardia, Poornima College of Engineering, Jaipur, India	https://tinyurl.com/ TS-4- ICSEEGT- 2022
2:15 PM- 2:30 PM	Session Break		
2:30 PM- 3:15 PM	Keynot e Session- II	Title: Recent Advances Materials on Energy Storage Technology and Sustainability  Speaker: Dr. M. V. Reddy, Senior Professional Researcher, Nouveau Monde Graphite (New Graphite World) (NMG), Quebec, Canada Session Host: Mr. Rahul Sharma, Poornima	Director Engineering College of Engineering College of Engineering Area of Engineering

		College of Engineering, Jaipur, India	
		Title: Noble  Metal-	
		Free Electrocatalysts for Oxygen	
		Reduction Reaction in Low-	
		Temperature Fuel Cells	
		Speaker: Dr. Wong Wai Yin,	
	Keynote	Research Fellow, and Senior	
3:15 PM-	Session-	Lecturer, Fuel Cell Institute,	
4:00 PM		Universiti Kebangsaan, Malaysia	
	III	Moderator: Dr. Monika Vardia,	https://tinyurl.com/ICS
		Poornima	<b>EEGT-2022</b>
		College of Engineering, Jaipur,	
		India	

# DAY-II, SATURDAY, JUNE 25, 2022

TIME	EVENT	GUEST/SPEAKER/HOST	Session Link (MS
(IST)			Teams)
		Title: Hydrometeorological	
		Disasters as a	
		Consequence of Climate Change	
		Speaker: Dr. Arindam Dey,	
		Department	
		of Civil Engineering & Center for	
	Keynote	Disaster Management and	
8:30 AM -	Session-	Research (CDMR), Indian Institute	https://tinyurl.com/ICS
9:15 AM	IV	of Technology Guwahati, India	<b>EEGT-2022</b>
	1 4	Session Host: Mr. Kalpit Jain,	
		Poornima	
		College of Engineering, Jaipur,	
		India	
9:15 AM-	Sessio		
9:30 AM		n	
7.50 ANI	Break		
		Session Chair: Dr. Pankaj	
		<b>Dumka</b> , Jaypee University of	144
	TD 1	Engineering and Technology,	https://tinvurl.com/
	Technic	Guna, India	dele
9:30AM -	al	Moderator: Dr. Surendra Kumar	Mahesh Bull pho
	Session-	Saini, 🔘	Director 2  Director 2  Director 2  Area
11:30 AM	V	Poorning College of Engineering	College of Intional Area
		Jaipur, India	rnima Collastifullo

		Session Chair: Dr. Pradeep	
		Kumar Gautam, National	1 //*
	Technic	Institute of Technology	https://tinyurl.com/
		Meghalaya, India	<u>TS-6-</u>
	al	Moderator: Mr. Divya Vishnoi,	ICSEEGT-
	<b>Session-</b>	Poornima	2022
	VI		<u>2022</u>
		College of Engineering, Jaipur,	
		India	
		Session Chair (s): Dr. Narayan	
		Lal Jain and Dr. Pran Nath	h44
	Techni	<b>Dadhich,</b> Poornima College of	https://tinyurl.com/
	cal	Engineering, Jaipur, India	<u>TS-7-</u>
		Moderator: Mr. Sanjay Kumwat,	ICSEEGT-
	Session	Poornima	2022
	- VII	College of Engineering, Jaipur,	
		India	
		Titutu	
		Sessio	
11:30 AM		n	
-11:45 AM		Break	
		Title: Sustainable Livelihoods and	
		Adaptation to Climate Change	
		Speaker: Dr. Ravindra S. Gavali,	
		Head,	
		Centre for Natural Resource	
		Management, Climate Change &	
		Disaster Mitigation (CNRM,	https://tinyurl.com/ICS
	Keynot	CCC&DM), National Institute of	<b>EEGT-2022</b>
11:45AM -	e	Rural Development &	
	Session-	Panchayati Raj, Hyderabad, India	
12:30 PM	V	Tunenayan ikaj, fryderaoad, maia	
	V	Session Host: Mr. Rahul Sharma,	
		Poornima	
		College of Engineering, Jaipur,	
		India	
		Iliula	
12:30 PM-			
1:00 PM	Session Break		
		<b>Title:</b> Hydrogen as a Future Fuel	
		Speaker: Dr. Dilip Sharma,	
		Malviya	
	Vormete	National Institute of Technology,	
1:00 PM -	Keynote	Jaipur, India	https://tipyard.com/ICCE
1:45 PM	Session-	C TT A M TZ 1 '- T	https://tinyv_l.com/ICSE
		Session Host Vir Kainit lain	EGT-2258
1:45 PM	VI	Desired Host. III. Raipii sain,	Bundele
1;45 FW	VI	Poornima College of Engineering,	Dosh Bunopho
	VI	Poornima College of Engineering, Jaipur, India	Mahesh Bunden
2:00 PM- 2:30 PM	VI	Poornima College of Engineering, Jaipur, India  Session Break	Mahesh Bundenho

		Chief Guest:	
		Dr. Herb S. Rhee, Managing	
		Director, Innovative Technology	
		and Energy Centre (ITEC),	
		Tanzania	
		Guest of Honor:	
		1. Anand Krishnan	
		Plappally, Head, Center for	
		Emerging Technologies for	
		Sustainable Development	
		(CETSD), Indian Institute of	
		Technology, Jodhpur, India.	
		2. Dr. Perumalla Janaki	
	Valedicto	Ramulu,	
		Director, Centre of Excellence for	httms://timewrol.com/ICCE
2:30 PM-	ry	Advanced Manufacturing	https://tinyurl.com/ICSE
3:15 PM	Ceremon	Engineering, Adama Science &	<u>EGT-2022</u>
	y	Technology University Adama,	
		Ethiopia	
		Session Host(s):	
		Dr. Pooja Gupta and Mr. Sanjay	
		Kumawat, Poornima College of	
		Engineering, Jaipur, India	



#### **INAUGURAL SESSION:**



The inaugural session was followed by a keynote session of Professor P. Muthukumar, Professor, Indian Institute of Technology, Guwahati, India, on the Energy Efficient and Environment Friendly Porous Radiant Burners for Cooking and Industrial Applications. Later, four parallel technical sessions were organized on the first day, where authors and participants participated and presented their papers. Overall, 186 research papers were received for ICSEEGT 2022 from different organizations worldwide, out of which our expert team of reviewers accepted 102 papers. The research papers in this conference were invited considering these three tracks: sustainable/renewable energy, environment and transportation, green technologies, and urban development. The presenters and attendees participated with full enthusiasm in all the technical sessions. As a result, 43 papers were presented in the technical sessions on the first day. The first Technical Session in offline mode was chaired by Dr. Narayan Lal Jain and Dr. Pran Nath Dadhich, and moderated by Mr. Rahul Sharma of Poornima College of Engineering, Jaipur, India. The second Technical Session was chaired by Dr Salifu Tahiru Azeko, Tamale Technical University, Tamale, Ghana: Mr. Sanjay Kumawat, Poornima College of Engineering, was the moderator for this session. Dr. Tanuj Chopra from Thapar Institute of Engineering and Technology, Patiala, India chaired the third Technical Session. The second and third session moderators were Mr. Divya Vishnoi and Mr. Sanjay Kumawat, Poornima College of Engineering respectively. Dr. Puneet Kumar Jain, National Institute of Technology, Raurkela, and Dr Ram Niwash Mahia. National Institute of Technology, Hamirpur, India chaired the fourth Technical Session and Byrun Dr. Monika Vardia from Poornima College of Engineering.

The day ended with a keynote session on *Recent Advances Mayor Conage*Technology and Sustainability by Dr. M V Reddy, Senior Profession Researcher, Nouveau Monde Graphite (New graphite world) (NMG), Quebec, Montreal, Canada.









On the second day of this conference, ICSEEGT 2022, two more technical sessions were organized and about 40 more accepted papers were presented. The sessions were chaired by Dr. Pankaj Dumka, Jaypee University of Engineering and Technology, Guna, India and Dr. Pradeep Kumar Gautam, National Institute of Technology Meghalaya, Dr. Surendra Kumar Saini, and Mr. Divya Vishnoi, PCE were the moderators for these sessions. There were three keynote sessions organized on this day. The first keynote talk, entitled *Noble Metal-Free Electro catalysts for Oxygen Reduction Reaction in Low-Temperature Fuel Cells*" was delivered by Dr. Wong Wai Yin, Research Fellow/ Senior Lecturer Fuel Cell Institute, University Kebangsaan Malaysia. The second talk title was *Sustainable Livelihoods and Adaptation to Climate Change* and Dr. Ravindra S. Gavali, delivered it, representing National Institute of Rural Development & Panchayati Raj, Hyderabad. The third session was on *Hydrogen as a Future* Fuel by Dr. Dilip Sharma, Malviya National Institute of Technology, Jaipur, India.

At the end of the second day in the valedictory ceremony, Dr. Herb S. Rhee, Managing Director, Innovative Technology and Energy Centre (ITEC), Tanzania, joined as the chief guest. In contrast, Dr. Anand K. Plappally, Head, Center for Emerging Technologies for Sustainable Development (CETSD), IIT Jodhpur, India, Dr. Perumalla Janaki Ramulu, Director, Centre of Excellence for Advanced Manufacturing Engineering, Adama Science and Technology University Adama, Ethiopia participated as the guest of honor of the ceremony. On the contrary, the event was a great success with addresses and sessions of learned persons, wholehearted participation from all our authors, co-authors, attendees, and an expert team of reviewers, coordinators, staff members, and organizing team members.



#### **DETAILS OF RESOURCE PERSONS/ ORGANIZING COMMITTEES:**

#### **Chief Patrons:**

- **Dr. S.M. Seth,** Chairman Emeritus Poornima Group, Former Director, National Institute of Hydrology, Roorkee, India
- Sh. Shashikant Singhi, Chairperson, Poornima Group, Jaipur, India

#### **Patrons:**

- Sh. M.K.M, Shah, Director General, Poornima Group, Jaipur, India
- Sh. Hari Singh Shekhawat, Director infrastructure, Poornima Group, Jaipur, India
- Ar. Rahul Singhi, Director, Poornima Group, Jaipur, India

#### **General Chair:**

• **Dr. Mahesh Bundele**, Principal & Director, Poornima College of Engineering, Jaipur, India

#### **Organizing Chairs:**

- Pankaj Dhemla, Vice Principal, Poornima College of Engineering, Jaipur, India
- **Dr. Narayan Lal Jain,** Head of the Department, Mechanical Engineering, Poornima College of Engineering, Jaipur, India
- **Dr. Pran Nath Dadhich**, Head of the Department, Civil Engineering, Poornima College of Engineering, Jaipur, India

#### **Conveners/Organizing Secretary:**

- **Dr. Raj Kumar Satankar,** Department of Mechanical Engineering, Poornima College of Engineering, Jaipur, India
- **Dr. Pooja Gupta,**Department of Civil Engineering, Poornima College of Engineering, Jaipur, India

#### **Advisory Committee:**

- Dr. Omprakash Yadav, Professor, North Dakota State University, USA
- **Prof. Abdul Ghani Albaa,** Visiting Professor, Environment Technology and Management, Princess Sumaya University for Technology, Jordan
- **Dr. Sandeep Choudhary,** Professor, Indian Institute of Technology, Indore, India
- Dr. Rajat Rastogi, Professor, Indian Institute of Technology, Roorkee, India
- Dr. Rosalin Sahoo, Professor, Indian Institute of Technology (BHU), Varanasi, India
- Dr. Manoj Neergat, Professor, Indian Institute of Technology, Bor.oay, India
- Dr. K.S. Reddy, Professor, Indian Institute of Technology. Manas, in
- Dr. Avinash Kumar Agarwal, Professor, Indian Institute
   India

- Dr. B. Ravindra, Associate Professor, Indian Institute of Technology, Jodhpur, India
- **Dr. Rohit Goyal,** Professor, Malaviya National Institute of Technology, Jaipur, India
- Dr. A. B. Gupta, Professor, Malaviya National Institute of Technology, Jaipur, India
- Dr. Dilip Sharma, Professor, Malaviya National Institute of Technology, Jaipur, India
- **Dr. Jyotirmay Mathur,** Professor, Malaviya National Institute of Technology, Jaipur, India
- Dr. G. D. Agrawal, Professor, Malaviya National Institute of Technology, Jaipur, India
- Dr. D. Dutta, Director, NRSC, Hyderabad, India

#### **Technical Program Committee:**

- **Dr. Vitalis Anye**, Senior Lecturer, Department of Materials Science and Engineering, African University of Science and Technology, Abuja, Nigeria.
- **Dr. Kabiru Mustapha**, Senior Lecturer Department of Materials Science and Engineering, Kwara State University, Malete, Nigeria
- Dr. Anand K Plappally, Associate Professor, Indian Institute of Technology, Jodhpur, India
- **Dr. T. N. Verma**, Assistant Professor, Maulana Azad National Institute of Technology, Bhopal, India
- **Dr. Rahul Goyal**, Professor, Manipal University Jaipur
- Dr. Yogesh Kumar, Assistant Professor, National Institute of Technology, Patna
- Dinesh Kumar Rajendran, Assistant Professor, National Institute of Technology, Srinagar
- Dr. P. Sudhakar Rao, Assistant Professor, NITTTR, Chandigarh
- Dr. K. B. Rana, Assistant Professor, Rajasthan Technical University, Kota, India

#### **Reviewer(s):**

- Dr. Abhishek Jain, SKIT M&G Jaipur, India
- Dr. Aditya R. Gautam, Birla Institute of Technology and Science, Pilani, India
- Dr. Ahmed Albahnasawi, Gebze Technic University, Turkey
- Dr. Akshay Jain, Symbiosis University of Applied Sciences Indore, India
- Dr. Ali Fadhil Naser, Al-Furat Al-Awsat Technical University
- Dr. Anil Kumar Sharma, National Institute of Technology Patna, Inc.
- **Dr. Anjali Peter,** Apex University, Jaipur, India

- Mr. Anjaly J Pillai, Indian Institute of Technology Guwahati, India
- **Dr. Basuraj Bhowmik,** Gitam School of Technology, Gitam University, Bangalore, India
- Dr. Bindhu B.K., Rajiv Gandhi Institute of Technology, Kottayam, India
- Dr. Biswajit Acharya, Rajasthan Technical University Kota, India
- Dr. Chandni Tiwari, Graphic Era (Deemed To Be University), Dehradun, India
- **Dr. Deepika Shekhawat,** Manipal University Jaipur, India
- Dr. Denis Jangeed, Geetanjali Institute of Technical Studies Udaipur Rajasthan, India
- Mr. Harendra Pratap Singh, Indian Institute of Science Bangalore, India
- Dr. Jyoti Shukla, Poornima College of Engineering, Jaipur, India
- **Dr. K. I. Syed Ahmed Kabeer,** SRM Institute of Science And Technology, Srm Nagar, Kattankulathur, India
- Dr. Karan Singh, GH Raisoni College of Engineering and Management, Pune, India
- Dr. Khubi Lal Khatri, Swarnim Startup and Innovation University, Gandhinagar, India
- Mr. Kuldeep, Rajasthan Technical University, Kota, India
- Dr. N. R. N. V. Gowripathi Rao, Aditya Engineering College, Andhra Pradesh, India
- Dr. Navita Mahajan, Amity International Business School, Noida, India
- Dr. Neha Bansal, SRM Institute of Science and Technology, Chennai, India
- Dr. P. Kavipriya, Sathyabama Institute of Science and Technology, Chennai, India
- Dr. Pankaj Dumka, Jaypee University of Engineering and Technology, Guna, India
- **Dr. Paresh Gujarati,** C G Patel Institute of Technology (Uka Tarsadia University), Bardoli, India
- Dr. Pradeep Kumar Gautam, National Institute of Technology Meghalaya, India
- Dr. Prarthita Basu, Shriram Institute For Industrial Research, Delhi, India
- Dr. Pravin Sonwane, Poornima College of Engineering, Jaipur, India
- Dr. R. K. Kumawat, I K Gujral Punjab Technical University, Amritsar, India
- Dr. Rahul Sen, Poornima University, Jaipur, India
- Dr. Raj Shree Charan, MSU Baroda, India
- Dr. Ranjit N. Patil, Priyadarshini Bhagwati College of Enginesing, Nagunda
- Dr. Rashmi Kumari, National Institute of Technology Lamirpur India
- Dr. Richa Jagatramka, Manipal University Jaipur, Ipografia

- Dr. Sangeeta Choudhary, Geetanjali Institute of Technical Studies, Udaipur, India
- Dr. Seelam Srikanth, Reva University Bengaluru, India
- **Dr. Shyam A.,** Anna University, Chennai, India
- Dr. Thiyam Tamphasana Devi, National Institute of Technology Manipur, India
- Dr. Vikash Kumar, Maulana Azad National Institute of Technology Bhopal, India
- Dr. Vipin Sharma, Sagar Institute of Research and Technology Bhopal, India
- Dr.P.Sivagurunathan, Annamalai University, Chidambaram, India
- Mr. Akashdeep Dey, National Institute of Technology Raipur, India
- Mr. Amit M. Kharwade, Nagpur Institute of Technology, Nagpur, India
- Mr. Amit Shrivastava, Indian Institute of Technology Jodhpur, India
- Mr. Ashish Solanki, Rajasthan Technical University, Kota, India
- Mr. Chander Prakash, Dr. B R Ambedkar National Institute of Technology Jalandhar, India
- Mr. Deepak Singh, Delhi Technological University Delhi, India
- Mr. Kamal Hassan, Lovely Professional University, Phagwara, India
- Mr. Mahendra Kumar Singar, Vivekananda Global University, Jaipur, India
- Mr. Manoj Dubey, Jaypee University of Engineering and Technology, Guna, India
- Mr. Md. Mustafa Kamal, Indian Institute of Technology Roorkee, India
- Mr. Padala Raja Shekar, National Institute of Technology Trichy, India
- Mr. Prem Ranjan, North Eastern Regional Institute of Science and Technology, Nirjuli, India
- Mr. Rahul Kanaoujiya, University of Allahabad, Pragyagraj, India
- Mr. Ramkiran B., Sastra Deemed University, Kumbakonam, India
- Mr. Rohit Kumar, Dr. B R Ambedkar National Institute of Technology Jalandhar, India
- Mr. Sachin Jain, Indian Institute of Technology Roorkee, India
- Mr. Sameer Gujar, Visvesvaraya National Institute of Technology Nagpur, India
- Mr. Sandeep Kumar, Indian Institute of Technology Delhi, India
- Mr. Sohil Sisodiya, Rajasthan Technical University, Kota, India
- Mr. Vinay Chahar, Government Engineering College Bhai?
- Mr. Vishwa Deepak Kumar, Indian Institute of Technology Jod
- Ms. Behnaz Shirdel, Islamic Azad University, Tabriz Manch Manageria, Iran

• Ms. Dipti Trivedi, Jawaharlal Nehru College of Technology, Rewa, India

#### **KEYNOTE SPEAKERS:**

TITLE OF THE TALK	Noble Metal-Free Electro catalysts for Oxygen Reduction Reaction in Low-Temperature Fuel Cells	
SPEAKER:1	Dr. WONG WAI YIN Research Fellow/ Senior Lecturer Fuel Cell Institute, Universiti Kebangsaan Malaysia.	
PROFILE LINK	https://scholar.google.com/citations?user=t3xOL0 0AAAAJ&hl=en&oi=ao	

#### **BRIEF BIO SKETCH**

**Dr. Wong Wai Yin** is currently a research fellow at the Fuel Cell Institute, Universiti Kebangsaan Malaysia (2016 – present). She received her Ph.D. degree in Fuel Cell Engineering (2014) at the Universiti Kebangsaan Malaysia with National Science Fellowship Malaysia Award. She received her bachelor's degree in Chemical Engineering (2009) with distinction at the same university. Currently, her research is focusing on design, characterization, and application of electrocatalysts and proton exchange membranes for polymer electrolyte membrane fuel cell and water electrolyser technologies. She has led several national and university research projects, as well as being active project members in university level, ministry level and industrial projects related to hydrogen and fuel cell technology development. She has published more than 70 papers and 3 book chapters with current H-index of 19 on Scopus. She has been invited by 5 international conferences/symposium to deliver keynote/invited speech. She is also an active reviewer for various SCIE journals from Elsevier, Wiley, Springer and RSC. She involves herself with the editor roles for several journals such as Frontiers in Chemistry, International Journal of Integrated Engineering and Journal of Engineering, Science and Technology. She has graduated 9 PhD and Master students and currently supervising 16 postgraduate students. She has been collaborated actively with researchers from Japan, China and Indonesia and managed to secure research funding from Chinese company on fuel cell materials development in 2022. She has also acted as a consultant for techno-economic analysis on biomass conversion into value-added product in 2020. Recently, she has been appointed as lead consultant for a project involving the development of component materials in Alkaline Electrolyte Membrane Electrolyser. organizing conference/symposium/workshop with various roles chair, and deputy chairman and committee members since shared academician. She is currently acting as the vice chairman for him academic on developing fuel cell technology related technical codes, to the Malaysian Technical Standard Forum Bhd. She and her team has successfully published one technical code related to hydrogen safety, and two more technical codes under way for final publication. She is also the member of the Malaysian Association of Hydrogen Energy established in 2017 and I Chem E.

TITLE OF THE TALK	Energy Efficient and Environment Friendly Porous				
	Radiant Burners for Cooking and Industrial				
	Applications				
SPEAKER:2	PROF. P. MUTHUKUMAR Professor, Department of Mechanical Engineering, Indian Institute of Technology, Guwahati, India				
PROFILE LINK	https://www.iitg.ac.in/pmkumar/				
	PRICE DIO GIZEEGII				

#### **BRIEF BIO SKETCH**

Prof. P. Muthukumar received PhD degree in Mechanical Engineering from IIT Madras during 2005. He joined at IIT Guwahati as Assistant Professor in January 2006 and became Professor in January 2015. He joined at IIT Tirupati as Professor in Mechanical Engineering on 25<sup>th</sup> May 2022. He received DAAD research fellowships during September – December 2000, June-July 2008, and June - July 2010. He is the recipient of IEI Young Engineer Award - 2010 in Mechanical Engineering from Institute of Engineers (India). He received **Bhaskara Advanced Solar Energy Fellowship** (BASE Fellowship) from Indo -

U.S. Science and Technology Forum (USIEF), Jan 2014 and also received Er. M.P. Baya National Award 2015 from Instituted by the Institution of Engineers (India), Udaipur. He is also the Fellow of Institute of Engineers (India). He is one of the Commission Member to represent India in the International Institute of Refrigeration (IIR). He also received Fulbright-Nehru Academic and Professional Excellence Fellowship from (USIEF) in 2018. He has served as the President, Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE), Guwahati subchapter. He also received "Mechanical Engineering Design Award 2017, from National Design & Research Forum (NDRF) of "The Institution of Engineers (India)", on 21st Dec 2017. During 2019, he was honoured as Eminent Engineer -2019 from "The Institution of Engineers (India)", Assam State Centre. 1, 2020 he appeared in the World's Top 2 % Scientist published by Stanford University USA report. He has won BIRAC- Innovation Challenge Awar Marin For stage – 1 and stage – 2. He was honoured with an award of Outstand service to country by the Institution of Engineers (India) Bridge Color 15th September 2021. To recognise his outstanding contributions in the field of

Thermal Science and Energy Technology as well as his contribution in the growth of the country's engineering profession, recently, he has been awarded for the prestigious "Abdul Kalam Technology Innovation National Fellowship 2021". He served as visiting Professor in many Universities from the USA and Germany and also having research collaborations with over 25 International Universities.

He has been published around 350 research articles in various International Journals and conference proceedings, edited four books and written 16 book chapters. He is having 12 national patents for his credit. He has served as guest editor in 3 elsevier Journal special issues. He has supervised 24 PhD, 65 M.Tech and 5 MS student's theses. He has successfully completed 10 sponsored research projects worth of 650 lakhs and five consultancy projects worth of 75 lakhs. Currently he is handling 7 research projects worth of 1200 lakhs. He is the reviewer of more than 75 International Journals in the area of hydrogen energy, energy storage, refrigeration, heat transfer, etc. and also reviewed several research proposals from DST, MNRE, Qatar Research Board, etc. He has been serving as expert member in several ministries including DST, MHRD, Ministry Oil and Natural Gas, Ministry of External Affair, etc for research project funding and monitoring. He is also expert / steering committee member in BIS, AICTE, NAAC and many other professor organizations. His area of research includes sorption heating and cooling systems, hydrogen energy storage, metal hydride based thermal machines, coupled heat and mass transfer in porous medium, porous medium combustion, etc.

TITLE OF THE	Hydrometerological Disasters as a Consequence of				
TALK	Climate Change				
SPEAKER:3	DR. ARINDAM DEY Associate Professor Department of Civil Engineering & Center for Disaster Management and Research (CDMR) Indian Institute of Technology Guwahati Guwahati				
PROFILE LINK					
	BRIEF BIO SKETCH				



Dr. Arindam Dey is currently an Associate Professor in the Geotechnical Engineering Division, Department of Civil Engineering, Indian Institute of Technology Guwahati. He obtained his B.E. from Jadavpur University, Kolkata (in 2003), followed by M.Tech. (in 2005) and Ph.D. (in 2009) from IIT Kanpur. Before joining IIT Guwahati in 2011, he has been a post-doctoral fellow at the StreGa Laboratory, University of Molise, Italy. He works in varied fields of geotechnical engineering including foundation engineering, geotechnical earthquake engineering, geophysical investigation, computational geotechnics and slope stability and landslides. His current research group includes 8 PhD students and 3 MTech students, and has already supervised 7 PhDs and 22 M. Tech students. His research group has more than 250 technical contributions in international/ national journals and conference/seminar proceedings including books, chapters and technical reports. He is a member of several professional bodies including ISSMGE TC-208 Committee on 'Slope Stability and Landslides', IGS, TRG, IEI, and FOSET. He has received several research awards, and has been an active research consultant in the area of geotechnical engineering

TITLE OF THE TALK	Recent advances materials on energy storage technology and sustainability				
SPEAKER:4	DR. M V REDDY Senior Professional Researcher, Nouveau Monde Graphite (New graphite world) (NMG), Quebec, Montreal, Canada				
PROFILE LINK	https://scholar.google.com/citations?user=pWK r2M0AAAJ&hl=en				
BRIEF BIO SKETCH					



Dr. M.V. Reddy obtained his Ph. D (2003) in the area of Materials Science and Engineering (with highest distinction) from the University of Bordeaux, France. From July 2003 to May 2019, he worked at the Department of Materials Science and Engineering, Chemistry and Physics, National University of Singapore (NUS). Singapore. June 2019 to Aug 2021, he had worked at the Centre of Excellence in Transportation Electrification and Energy Storage, Hydro-Québec, Canada. Currently working as a Senior Professional Researcher at Nouveau Monde Graphite (New graphite world) (NMG), Quebec, Montreal, Canada.

Over the past 21 years, he has conducted leading research on Materials for Energy Storage (cathodes, anodes, supercapacitors and electrolytes), Materials processing & characterization, and the development of in situ techniques for Energy storage renewable technologies.

Dr. Reddy has published 220 papers in various international journals. He has obtained an h- index of 68 with over 17000 citations. These have recently placed him within the top 2% highly cited researchers in Energy (world Ranking the  $1002^{nd}$  out of 186500 researchers) and Highly cited Researcher in Materials Science in Canada (National ranking:39)

Dr. Reddy is serving as an editorial advisory board member in Materials Research Bulletin and Journal of Energy Storage (Elsevier, Scopus journal) as well as several open access journals

Awards: Outstanding Science Mentorship Award (2010- 2018), and Inspiring Research Mentor Award (2011 to 2019), 2021 Battery Materials electrochemistry award from the Electrochemical Society of India, Indian Institute of Science (IISc), Bangalore, India.

Invited life member in ICDD USA and given 150 talks at various conferences and workshops & FDP.

Invited committee member in various international Research proposals, theses and conference organizations and visiting Professor at various Universities.



TITLE OF THE TALK	Hydrogen As a Future Fuel		
SPEAKER:5	PROF DILIP SHARMA Professor, HAG Malaviya National Institute of Technology Jaipur (MNIT), Jaipur, India		
PROFILE LINK	https://mnit.ac.in/dept_mech/profile?fid=Q <u>qk=</u>		

#### **BRIEF BIO SKETCH**

Prof. Dilip Sharma is a Mechanical Engineering Graduate (1988) from MREC Jaipur (Now known as MNIT Jaipur). After working with CIMMCO Ltd, Bharatpur for a short while, he joined Roorkee University for Post Graduation in Thermal Engineering and was awarded with University Medal for securing highest marks in Post Graduation. Dr. Sharma joined as a faculty in Mechanical Engineering (1992) at MREC, which is now known as MNIT Jaipur. He is presently working as Head, Mechanical Engineering Department.

He has done research in the field of biodiesels, engine performance, emissions and tribology investigations at MNIT Jaipur and was awarded Ph.D. degree from University of Rajasthan Jaipur.

12 students have completed Ph.D. under his supervision and 04 are pursuing in the field of Alternate Sources of energy. He has published more than 150 research papers in Journals and Conferences. He has filed 07 patents (2 Awarded), published 15 books and 07 book chapters. Dr. Sharma has completed 07 major R&D projects. He has done more than 41 consultancy projects.

He had been a member of various Selection Committees, Academic Councils and Board of Studies Various Universities and Colleges.

He is associated with various academic bodies such as NBA, NAAC, AICTE and TEQIP etc. He had also been member of various committees in UPSC, DRDO and RPSC etc. He had been a member of Research Degree committee of PTU Jalandhar and MANIT Bhopal. He is actively associated in innovation activities and is a board member of State Innovative council (SIC)

(Earlier known as GIAN) and member of many other booking it. The field of Innovations.

He was a member of Technical committee for finalizing the specimeations of buses for

BRTS (Bus Rapid Transit System) in Jaipur.

Dr. Sharma has taken various assignments at MNIT, Jaipur, such as Dean (Students Welfare & Alumni Affairs), Associate Dean (Students Welfare and Alumni Affairs), Coordinator Institute Security, Coordinator Transportation, Coordinator Central Workshop, Coordinator Alumni Affairs, Hostel Warden, Vice President Games and Sports, Assistant Proctor, In-charge of Institute Guest house etc.

He at present is working with Alcohols, Hydrogen, Acetylene, Biodiesels, Waste vegetable oils and other additives as substitution fuel in I.C. engines for single generation as well as trigeneration. He is also working in the field of Solar Cogeneration and Trigeneration systems.

TITLE OF THE TALK	Sustainable Livelihoods and Adaptation to Climate Change							
SPEAKER:6	DR. RAVINDRA S. GAVALI Professor & Head, School of Sustainable Development, Centre for Natural Resource Management, Climate Change & Disaster Mitigation (CNRM, CC & DM). National Institute of Rural Development & Panchayati Raj, Rajendra Nagar, Hyderabad, India							
PROFILE LINK	http://nirdpr.org.in/drrsgavali.aspx							
В	BRIEF BIO SKETCH							

**Dr. Ravindra S. Gavali** is currently working as a Professor & Head at School of Sustainable Development, Centre for Natural Resource Management, Climate Change & Disaster Mitigation (CNRM, CC & DM), at National Institute of Rural Development & Panchayati Raj, Hyderabad, India. Professor Ravindra has obtained his Ph.D. in Environmental Science, JNU, New Delhi, India. He is having a research experience of 18 years in the area of Natural Resource Management and Conservation, Water Watershed Management, Climate Change, Disaster Management, Rural Development, Geoinformatics, Water Pollution Monitoring and Assessment.

Dr. Ravindra has been an expert member of various committees in the Systems Committee of India-IIASA (Technology and International Systems Analysis, Austria) Programme. National Advisory Committee on Climate Resilient

Agriculture, DST-TIFAC. Project Assessment Committee, DST- TIFAC, Scientific Advisory Committee, SRTM University, Nanded, Policy Research Advisory Committee, NIRDPR etc. In his competent leadership he has conducted several national & international trainings on natural resource management, application on remote sensing & GIS, watershed management, biodiversity conservation, climate change, Disaster management etc.

**Dr. Ravindra** is a Life Member, INSEE – Indian Society for Ecological Economics, Indian Society of Remote Sensing, Indian Science Congress Association and member of Indian Environment Network, Conservation Alliance, UK and Kalinga Development Foundation. Being an excellent researcher, he has published 30 international papers, 24 National research papers and delivered more than 100 expert talks at national and international events. Till date he has guided 12 PhD students, completed 5 major and 3 Consultancy Projects

#### PLENARY TALK SPEAKERS:

CHIEF GUEST	Professor S.A. Sherif,  Department of  Mechanical and  Aerospace Engineering,  University of Florida,	ICSEEGT202 2_T3_3152
BRIEF I	USA BIO SKETCH	

Dr. S.A. Sherif is a tenured Professor of Mechanical and Aerospace Engineering and is the Founding Director of the Wayne K. and Lyla L. Masur HVAC Laboratory, the Director of the Industrial Assessment Center and the Director of the Mobile Energy Laboratory at the University of Florida. He served as Co-Director of the Southeastern Center for Industrial Energy Intensity Reduction at the University of Florida (2009-2013). He also served on the faculties of the University of Florida (1991-present), University of Miami (1987-1991), and Northern Illinois University (1984-1987). He is a Life Fellow of ASME, a Life Fellow of ASHRAE, a Fellow of the Royal Aeronautical Society, an Associate Fellow of AIAA, a Vice President of Commission B-2 on Refrigerating Equipment and a Member of Commission Thermodynamics and Transfer Processes of the Internation Philatute of Secretical American Member of the Advisory Board of Directors of the Internation of the American

Society of Thermal and Fluids Engineers (ASTFE). He is the 2013-2014 Chair of the ASME Heat Transfer Division Executive Committee (2009-2016) and a member of the ASME's Basic Engineering Group Operating Board (2010-2014). He is also the 2002-2003 Chair of the ASME Advanced Energy Systems Division, and a past chair of the K-19 Committee on Environmental Heat Transfer of the ASME Heat Transfer Division (2003-2007), the Coordinating Group on Fluid Measurements (1992-1994) and the Fluid Applications and Systems Technical Committee (2008-2010) of the ASME Fluids Engineering Division. He is also a past chair of the Steering Committee of the Intersociety Energy Conversion Engineering Conference (2001-2003), ASHRAE's Standards Project Committee 41.6 on Measurement of Moist Air Properties (1989-1994), and ASHRAE's TC1.1 Committee on Thermodynamics and Psychrometrics (2012-2013). He also served as a member of the ASME's Energy Resources Board (2001-2003) and was the Board's representative to the ASME's International Mechanical Engineering Congress Committee (2003-2006). He was the Head of the Refrigeration Section of ASHRAE (2004-2008), the Technical Conference Chair of both the 2008 ASME Summer Heat Transfer Conference and the 12th AIAA/ASME Thermophysics and Heat Transfer Conference (2018), a member of the ASME Frank Kreith Energy Award Selection Committee (2005-2011), and the General Conference Chair of the 2013 ASME Summer Heat Transfer Conference. He also served as the Technical Conference Co-Chair of the 2nd ASTFE Thermal and Fluids Engineering Conference (2017) and the Technical Discipline Chair of the 2019 AIAA Aviation and Aeronautics Forum and the 2020 AIAA Science and Technology Forum. Dr. Sherif is currently serving as an ABET Program Evaluator (PEV) in Mechanical Engineering (2019-2024).Dr. Sherif currently serves as Editor-in-Chief of the ASME Journal of Solar Energy Engineering (1/1/2020-1/1/2025). He also served as Editor-in-Chief of the ASME Journal of Thermal Science and Engineering Applications (1/1/2014-6/30/2019). He currently serves as Subject Editor of Solar Energy (2004-2021), and a Subject Editor Emeritus of the International Journal of Hydrogen Energy (2011-present). He is a past Associate Technical Editor of the ASME Journal of Heat Transfer (2007-2011) and the ASME Journal of Thermal Science and Engineering Applications (2011-2014). He is also a past Subject Editor of the International Journal of Hydrogen Energy (2005-2010) and a vist Bool Editor of ASME's Applied Mechanics Reviews (2001-2003) Mans boards of 22 other thermal science journals such as Applied Those Transfer - Asian Research, the International Journal of

International Journal of Energy for a Clean Environment. He has served as member or chair of over 60 administrative and technical committees in five professional societies, 350 conference organizing or scientific committees, and as chair or member of over 265 master's and doctoral committees. Dr. Sherif has given over 150 invited lectures worldwide. He is the recipient of the E.K. Campbell Award of Merit from ASHRAE in 1997 for "outstanding service and achievement in teaching" and a "TIP" teaching award from the University of Florida in 1998. In 2000, 2004, and 2007, he was selected by the University of Florida as an Anderson/CLAS Scholar Faculty Honoree. He is the recipient of the 2001 Kuwait Prize in Applied Sciences, a Heat Transfer Division 75th Anniversary Medal (2013), an ASHRAE Distinguished Service Award (2003), an ASHRAE Exceptional Service Award (2010), and two Best Paper Awards from AIAA (2005) and ASME (2005). He is the recipient of three "Certificates of Recognition for Research Contributions" from NASA, a Premium of Academic Excellence (PACE) Award from Iowa State University, four research awards from the University of Miami, and a "Graduate Research and Artistry Award" from Northern Illinois University. He has received certificates of appreciation from the ASME Board of Governors, Heat Transfer Division, Solar Energy Division, Advanced Energy Systems Division, Fluids Engineering Division, ASME's International Mechanical Engineering Congress Committee, the Japan Society of Mechanical Engineers (JSME), ASHRAE, AIAA, ASTFE, and numerous conference-organizing committees. In 2007, he received a Superior Accomplishment Award from the University of Florida's Office of the Provost. In 2008, he was elected as an ASHRAE Distinguished Lecturer. In 2018, he was awarded a UF Research Foundation Term Professorship (2018-2021) and in 2021 was awarded an MAE Excellence Term Professorship (2021-2024). Dr. Sherif has 140 refereed journal papers, one book, 20 published bound volumes, 24 book chapters, 155 conference papers, 190 technical reports, and two US patents.

#### **GUEST OF HONOR**

Professor L.M Das,
Former Professor,
Centre for Energy
Studies, Indian Institute
of Technology, Delhi,
India

#### **BRIEF BIO SKETCH**

Dr. L. M. Das is currently Retired Professor at the Centre for Fig. 11. IIT Delhi. He took his Bachelor's degree in Mechanical Engineering from Regional Engg

college, Rourkela in 1970 and M Tech degree from Indian Institute of Technology, Kharagpur and PhD from IIT, Delhi Dr Das has got a teaching/research experience of about thirty-eight years to his credit. His primary areas of research interest include development of alternative-fuelled low emission engines/vehicles. He has supervised 34 PhD theses and about 78 M. Tech Projects in this area. Dr Das has published more than 80 research papers in various independently refereed international and national journals in the area of alternative fuels such as Hydrogen, CNG, Biodiesel and Hydrogen-CNG blend. Dr. Das has had a close international research interaction. He had several research assignments in University of California, Riverside (USA), Thornton Research Centre, Chester, (England) INRETS, Lyon, (France) and at the Institution Superior Technico, Lisbon (Portugal). He had delivered invited lecturers in several international symposia/conferences in India and abroad such as USA, England, France, Germany, Japan, Switzerland, Australia, Belgium, Netherlands, Thailand, Moscow, Turkey Philippines, Nepal and Srilanka. He was a Member, Expert Group on Transportation constituted by the Steering Group of the National Hydrogen Energy Board, India as well as a Member of the CAR (Core group of Automotive Research) of the Govt of India. He was the Convener of the Technical Committee of the World Hydrogen Technology Convention held in August 2009 at New Delhi. Extremely ecoconscious in his research models aiming at sustainable growth and development he has been rather passionate about the use of Biodiesel extracted from several Indian nonedible seeds in existing vehicles. As part of a sponsored project by General Motors, vehicle was operated on road from Delhi to Kanyakumari using 20% biodiesel .He has been awarded "Rajiv Gandhi Samman" by the Department of Science and Technology, Government of Orissa as an Exemplary Scientist and Educationist for Achievements and contributions in the field of Non-conventional Energy Sources in 2005. This year in 2012 he has been a winner at the "Innovators Competition" for DST-Lockheed Martin India Innovation Growth Program. Dr Das has had several consultancy/projects sponsored by UNIDO, General Motors (USA), European Union, Shell, MNRE, and DST. With an effort to transfer the technology from lab to land, Dr Das has coordinated an academia-industry UNIDO-Sponsored project consortium consisting of IIT, Delhi, Mahindra and Air products with support from UNIDO-ICHET, UNIDO (India) and ITPO in which world's first fleet of hydrogen-operated by e wheelers demonstrated during Auto-expo 2012 in New Delhi.

#### **GUEST OF HONOR**

#### DR. L. N. Thakural

Senior Scientist, Surface Water Division, National Institute of Hydrology, Roorkee, India



#### BRIEF BIO SKETCH

Dr. L N Thakural, an alumnus of the Indian Institute of Technology (IIT), Roorkee, he is graduated in Civil Engineering from Jamia Millia Islamia, New Delhi in 1994. He was awarded a Diploma in Geo-informatics for Environmental Assessment and Disaster Management from the Indian Institute of Remote Sensing, Dehradun in 2003. He achieved M. Tech with specialization in Water Resources Development from the Indian Institute of Technology (IIT), Roorkee in 2007 and was awarded with PhD in "Streamflow modeling and Climate Change" from IIT Roorkee.

Dr. Thakural is presently working as Scientist-D in the National Institute of Hydrology, Roorkee under the Ministry of Jal Shakti, Government of India. He has over 24 years of professional experience in water resources and management. He specializes in Remote Sensing and GIS applications in water resources, Hydrological modeling, Climate change and Irrigation Water Management. He has published several technical research papers in National/International Journals and conferences and has been involved in many R &D/Consultancy projects. He is also member of the editorial board of technical journals. Dr. Thakural have guided M Tech students from IIT Roorkee, DTU (Delhi), BHU (Banaras), MANIT (Bhopal) MMMUT (Gorakhpur),

Graphic Era University (Dehradun) and internship students. He has been the coordinator for technical visits by government officials/students from various academic institutes and organizations.

He has been on technical visit to United Kingdom and Nepal. He is a recipient of the Best Research Paper Award by the International Society of Science and Technology (ISST), Mumbai. He has organized several national and international training programs for field engineers and academic institutes.

He is a Nodal officer for the Swachh Bharat Mission, Jal Shakti Abbisen and the State Specific Action Plan for Water launched by the Mission of the Government of India. He is also a Key Resource Person for the Jal December of the Bellin was a second of the Balance of the Bala

and contribution to Swachhta programs led by the Government of India. He is an expert member of various committees related to water resources.

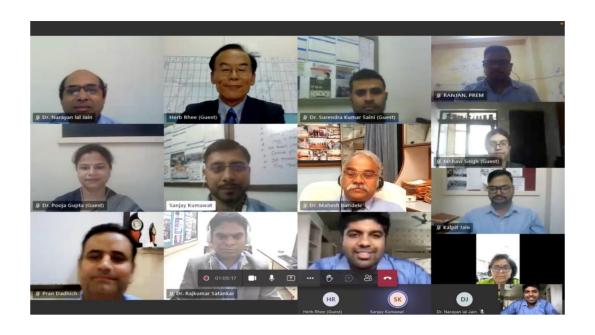
# **CONTENT DELIVERY / PRACTICAL SESSIONS: NIL**

# **GLIMPSES OF PRESENTATIONS:**









# LIST OF PARTICIPANTS:

Paper ID	Title	First Author Name	First Author Email	First Author Affiliation	Reviewed at	Reviewer Name	Decision
1	AAC Blocks an Innovation as Eco- friendly Material in Construction	Dr. Pooja gupta	Pooja.gupta @poornima. org	Poornima College of Engineering, Jaipur	2022-04-07 09:32:14+0000	Raj	Rejected
2	Quality Assessment of Composts from different Organic sources	Parveen parihar	Pparihar253 @gmail.com	Bhartiya Skill Development University	2022-05-23 10:00:33+0000	Dr. Prarthita Basu	Accepted
2	Quality Assessment of Composts from different Organic sources	Parveen parihar	Pparihar253 @gmail.com	Bhartiya Skill Development University	2022-05-24 09:33:50+0000	N r n v gowripath i rao	Accepted
3	Framework for freight movement in Bangalore city, India	Dr. Seelam srikanth	Ssseelamsrik anth@gmail. com	REVA University	2022-04-22 10:19:55+0000	Dr Biswajit Acharya	Accepted
3	Framework for freight movement in Bangalore city, India	Dr. Seelam srikanth	Ssseelamsrik anth@gmail. com	REVA University	2022-04-28 08:31:47+0000	Sohil Sisodiya	Accepted
5	Application of eco- friendly and smart materials in geotechnical engineering for subgrade stabilization: a review	Piyush	Piyushkolhe 007@gmail. com	Sant Gadge Baba Amravati University	2022-04-27 06:06:52+0000	Basuraj Bhowmik	Accepted
5	Application of eco- friendly and smart materials in geotechnical engineering for subgrade stabilization: a review	Piyush	Piyushkolhe 007@gmail. com	Sant Gadge Baba Amravati University	2022-05-14 08:52:43+0000	Anjal Poul	Accepted ME. Ph.D.
7	Experimental investigations and quasi dimensional modelling of spark ignition engine fueled with	Manjunat ha swamy k m	Manjukm11 411@gmail. com	Siddaganga Institute of Technology	09:0.	OJAAri L.SMAR	niges_request ed

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	gasoline and oxyhydrogen gas mixture						
7	Experimental investigations and quasi dimensional modelling of spark ignition engine fueled with gasoline and oxyhydrogen gas mixture	Manjunat ha swamy k m	Manjukm11 411@gmail. com	Siddaganga Institute of Technology	2022-05-23 09:39:14+0000	Dr. Akshay Jain	Changes_request ed
8	Tannery Waste as a Partial Replacement of Cement in Mortar	Dr. Md. Naimul haque	Naimul@ew ubd.edu	East West University	2022-05-23 10:17:56+0000	Dr.Prarthi ta Basu	Rejected
8	Tannery Waste as a Partial Replacement of Cement in Mortar	Dr. Md. Naimul haque	Naimul@ew ubd.edu	East West University	2022-05-05 07:46:09+0000	K I SYED AHMED KABEER	Rejected
10	Low frequency Vibration Energy Harvester using Compliant Mechanism driven Rosen-type Piezoelectric Transformer	Nilanjan chattaraj	Nilanjan.cha ttaraj@gmail .com	National Institute of Technology Durgapur	2022-05-30 17:03:16+0000	Dr. Jyoti Shukla	Accepted
10	Low frequency Vibration Energy Harvester using Compliant Mechanism driven Rosen-type Piezoelectric Transformer	Nilanjan chattaraj	Nilanjan.cha ttaraj@gmail .com	National Institute of Technology Durgapur	2022-06-09 11:52:04+0000	Md. Mustafa Kamal	Accepted
11	Relationship of shading devices and its effects on daylight in Commercial buildings in Pune.	Pradnya nishad patki	Pradnyapatki @bkps.edu	BKPS College of Architecture	2022-04-28 06:53:23+0000	Rashmi Kumari	Accepted
11	Relationship of shading devices and its effects on daylight in Commercial buildings in Pune.	Pradnya nishad patki	Pradnyapatki @bkps.edu	BKPS College of Architecture	2022-05-23 10:44:36+0000	Dr Biswajit Acharya	Accepted
13	A Bibliometric Analysis of Sustainability Centered Corporate Social Responsibility Research in the Year 2000s	Dr.umesh kumar chaturvedi	Umesh.chatu rvedi@gla.a c.in	GLA University	2022-05-24 14:56:49+0000	Dr. P. Kavipriya	Accepted
13	A Bibliometric Analysis of Sustainability Centered Corporate Social Responsibility Research in the Year 2000s	Dr.umesh kumar chaturvedi	Umesh.chatu rvedi@gla.a c.in	GLA University	2022-05-27 04:33:18+0000	Mr. Denis Jangeed	Accepted
14	Analysis and providing solutions for the rectification of black spots on nh-27(old nh-28)	Vishal pandey	Pandeyvisha 1750@gmail. com	Galgotias University	2022-05-09 17:57:38+0000	RAHUL KANAO UJIYA	Accepted
14	Analysis and providing solutions for the rectification of black spots on nh-27(old nh-28)	Vishal pandey	Pandeyvisha 1750@gmail. com	Galgotias University	2022-05-24 08:02-52-0	nesh E	M Excepted
15	Experimental Investigation of Direct Injection Diesel Engine using Waste Plastic	Jatadhara G S	Jatadhara@s it.ac.in	Siddaganga Institute of Technology	20. 17:25:26+0000	CO Institution	Accepted

	oil as fuel						
16	A case study on indore brts with reference to other indian cities	Jayati singh	Jayatisingh9 7@gmail.co m	Galgotias University	2022-06-07 09:45:12+0000	Dr. Akshay Jain	Accepted
17	Making roads safer and congestion-free in aligarh city for pedestrians and two-wheeler users	Shahbaz shamshad khan	Ms.shahbaz3 44@gmail.c om	Galgotias University	2022-05-27 10:39:15+0000	Sachin Jain	Accepted
17	Making roads safer and congestion-free in aligarh city for pedestrians and two-wheeler users	Shahbaz shamshad khan	Ms.shahbaz3 44@gmail.c om	Galgotias University	2022-06-03 08:13:35+0000	Dr Biswajit Acharya	Accepted
21	Estimation of fatigue and rutting life using falling weight deflectometer of flexible pavement road in hilly terrain	Gagan sharma	Gagan.vashi shtha98@gm ail.com	Galgotias University	2022-05-24 12:32:50+0000	Akashdee p Dey	Accepted
22	A study of on-street parking vehicle in sonipat city	Harivansh kumar chaudhary	Harivanshbi et@gmail.co m	Galgotias University	2022-05-20 14:49:02+0000	Harendra Pratap Singh	Accepted
26	Soil dissolved organic carbon leaching characteristics of the coastal saline seep weed wetlands in the Wuleidaowan national wetland	Yijie zhang	1227032587 @qq.com	Beijing Jiaotong University	2022-05-27 06:47:52+0000	Sivagurun athan Paramasiv am	Accepted
26	Soil dissolved organic carbon leaching characteristics of the coastal saline seep weed wetlands in the Wuleidaowan national wetland	Yijie zhang	1227032587 @qq.com	Beijing Jiaotong University	2022-05-28 04:52:39+0000	Ashish Solanki	Accepted
28	Relation between traffic volume count and accident data and diverting the traffic to new greenfied alignment	Harivansh kumar chaudhary	Harivanshbi et@gmail.co m	Galgotias University	2022-05-19 17:00:40+0000	Harendra Pratap Singh	Accepted
32	Perpetual Flexible Pavement vs. Rigid Pavement: An Economic and Environmental Cost Comparison	Rahul kumar	20mce212@ nith.ac.in	National Institute of Technology Hamirpur	2022-06-06 08:29:16+0000	Anil Kumar Sharma	Accepted
33	Measuring the Level of Road Safety Through Road Safety Audit and Star Rating Method – A Case Study From Himalayan Expressway	Saurabh kumar s	20mce216@ nith.ac.in	National Institute of Technology Hamirpur, India	2022-06-06 08:27:18+0000	Anil Kumar Sharma	Accepted
33	Measuring the Level of Road Safety Through Road Safety Audit and Star Rating Method – A Case Study From Himalayan Expressway	Saurabh kumar s	20mce216@ nith.ac.in	National Institute of Technology Hamirpur, India	2022-06-07 10:36:18:000	Dear OF	Accepted
34	Standard Operating Procedure for Assessment and Rating of National	Sunil sharma	Sunils@nith. ac.in	National Institute of Technology Hamirpur, India	202 06:03:34+0000	Aaran Singh	Accepted

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	Highways based on Highway Efficiency						
34	Standard Operating Procedure for Assessment and Rating of National Highways based on Highway Efficiency	Sunil sharma	Sunils@nith. ac.in	National Institute of Technology Hamirpur, India	2022-05-28 06:17:59+0000	Ashish Solanki	Accepted
35	Performance Rating of National Highways Based on Road User Perspective – A Case Study of Kalka–Shimla Highway	Sunil sharma	Sunils@nith. ac.in	National Institute of Technology Hamirpur, India	2022-05-14 20:59:38+0000	Sandeep Kumar	Accepted
35	Performance Rating of National Highways Based on Road User Perspective – A Case Study of Kalka–Shimla Highway	Sunil sharma	Sunils@nith. ac.in	National Institute of Technology Hamirpur, India	2022-05-28 06:26:25+0000	Ashish Solanki	Accepted
36	Psychological predictors of Sustainable Transportation Behaviour: Implications for Low Carbon Economy and Society	Shiromi chaturvedi	Shiromichat urvedi@gma il.com	St Xavier's College	2022-05-29 21:15:19+0000	Rajshree charan	Accepted
37	Spring Water Management to Ensure Long Term Sustainability in North Eastern Regions of India	Prem ranjan	Prem009ranj an@gmail.c om	North Eastern Regional Institute of Science and Technology	2022-05-17 06:05:17+0000	Ahmed Albahnas awi	Accepted
37	Spring Water Management to Ensure Long Term Sustainability in North Eastern Regions of India	Prem ranjan	Prem009ranj an@gmail.c om	North Eastern Regional Institute of Science and Technology	2022-05-31 13:16:54+0000	Padala Raja Shekar	Accepted
38	Green Healthcare- Bandwagon to Environmental Sustainability	Dr. Harleen kaur	Harleen2612 92@gmail.c om	Guru Nanak Dev University	2022-05-09 18:01:24+0000	RAHUL KANAO UJIYA	Rejected
38	Green Healthcare- Bandwagon to Environmental Sustainability	Dr. Harleen kaur	Harleen2612 92@gmail.c om	Guru Nanak Dev University	2022-05-23 10:51:56+0000	Dr Biswajit Acharya	Rejected
39	Challenges Related to Flexible Manufacturing Systems	Kaustubh purushotta m sakhare	Kaustubhpur ushottamsak hare_2k18m e111@dtu.ac .in	Delhi Technological University	2022-05-22 10:27:33+0000	Dr. Khubi Lal Khatri	Rejected
41	A study of cost comparison of flexible pavement using different soils	Dr. M v s s sastri	Mvss.sastri @staff.vce.a c.in	VASAVI COLLEGE OF ENGINEERING	2022-05-26 01:54:58+0000	Pradeep Kumar Gautam	Accepted
42	Durability Characteristics of Recycled Aggregates for Physical and Chemical Properties of Concrete	Dr. Shailesh choudhary	Shaileshmb m@gmail.co m	MBM UNIVERSITY JODHPUR	2022-05-23 10:40:31+0000	Dr.Prarthi	Accepted ME Ph.D.
42	Durability Characteristics of Recycled Aggregates for Physical and Chemical Properties of	Dr. Shailesh choudhary	Shaileshmb m@gmail.co m	MBM UNIVERSITY JODHPUR	2022-0-7 07.4	THATE V	Accepted

	Concrete						
45	Analysis of different buffer layers on cuo based solar cells using SCAPS-1D.	Chandni tiwari	Chandnitiwa ri.ece@geu.a c.in	Graphic Era University	2022-05-03 18:01:58+0000	Vishwa Deepak Kumar	Accepted
47	Traffic Count Analysis during COVID-19: Case Study of Toll Plazas under Project Highway along Nagpur- Jabalpur National Highway (NH44) near Nagpur, India	Kalpana n kawatheka r thakare	Kalpana@st udents.vnit.a c.in	Visvesvaraya National Institute of Technology and KITS Ramtek	2022-06-02 15:56:51+0000	K I SYED AHMED KABEER	Accepted
47	Traffic Count Analysis during COVID-19: Case Study of Toll Plazas under Project Highway along Nagpur- Jabalpur National Highway (NH44) near Nagpur, India	Kalpana n kawatheka r thakare	Kalpana@st udents.vnit.a c.in	Visvesvaraya National Institute of Technology and KITS Ramtek	2022-05-26 02:18:23+0000	Pradeep Kumar Gautam	Accepted
47	Traffic Count Analysis during COVID-19: Case Study of Toll Plazas under Project Highway along Nagpur- Jabalpur National Highway (NH44) near Nagpur, India	Kalpana n kawatheka r thakare	Kalpana@st udents.vnit.a c.in	Visvesvaraya National Institute of Technology and KITS Ramtek	2022-05-14 20:26:21+0000	Sandeep Kumar	Accepted
50	Prediction of Rainfall Using Hybrid SVM-HHO Model	Abinash sahoo	Bablusahoo1 992@gmail. com	National Institute of Technology, Silchar	2022-06-13 19:11:02+0000	Rohit Kumar	Accepted
51	Impact Assessment of Citizen Engagement and Citizens' Experience of Services on Service Quality in Smart Cities in India	Vikrant dhenge	Vdhenge@st udents.vnit.a c.in	Visvesvaraya National Institute of Technology	2022-06-13 13:48:39+0000	Rohit Kumar	Accepted
54	Chambal River Water Quality Assessment at Kota Metropolis Through the Irrigation Water Quality Indices from 2018-2021	Kuldeep kamboj	Kuldeep.ka mboj44@rtu .ac.in	Rajasthan Technical University	2022-05-24 07:20:34+0000	BINDHU BK	Accepted
54	Chambal River Water Quality Assessment at Kota Metropolis Through the Irrigation Water Quality Indices from 2018-2021	Kuldeep kamboj	Kuldeep.ka mboj44@rtu .ac.in	Rajasthan Technical University	2022-05-13 14:57:59+0000	Behnaz Shirdel	Accepted
55	Numerical investigation of concentrated solar central billboard with hexagonal tubes	Sanjay N. Havaldar	Sanjay.haval dar@mitwpu .edu.in	Dr. Vishwanath Karad World Peace University	2022-05-22 13:26:09+0000	Amit Shrivasta	Accepted
55	Numerical investigation of concentrated solar central billboard with hexagonal tubes	Sanjay N. Havaldar	Sanjay.haval dar@mitwpu .edu.in	Dr. Vishwanath Karad World Peace University	20-2-05-05 10:02:10+0000	Vishwa Deenak	Accepted
58	Comparison of multi linear	Rajat nainwal	Rajatn@nith .ac.in	National Institute of Technology	2022-04-25 09:23:06+0000	Dr. Akshay	Accepted

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	regression and artificial neural			Hamirpur		Jain	
	network to predict						
	the energy						
	consumption of residential						
	buildings						
	Organic farming in the tropical,						
	disaster-prone						
	coasts: interventions,		Naazaliya6	Indian Institute of	2022-05-24	Anjali	
59	major challenges	Aliya naz	@gmail.com	Technology Dhanbad	18:32:15+0000	peter	Accepted
	and success story from Sundarban			Difailead			
	Biosphere Reserve,						
	India						
	Sustainable Energy Business Model		C1: 1 1				
60	and Strategies for	Dr. Shiv	Shivsankard as85@gmail.	Zenith School of	2022-04-29	Manoj	Accepted
	Marketing of Solar Products in Rural	sankar das	com	Management	10:37:55+0000	Dubey	1
	Areas of Odisha						
	Sustainable Energy Business Model						
60	and Strategies for	Dr. Shiv	Shivsankard as85@gmail.	Zenith School of	2022-05-09	Dr. Richa Jagatramk	Accepted
00	Marketing of Solar Products in Rural	sankar das	com	Management	18:12:41+0000	a	riccepted
	Areas of Odisha						
	Sustainable Energy Business Model						
60	and Strategies for	Dr. Shiv	Shivsankard	Zenith School of	2022-05-09	Pankaj	A coomts 1
60	Marketing of Solar	sankar das	as85@gmail. com	Management	09:42:46+0000	Dumka	Accepted
	Products in Rural Areas of Odisha						
	Performance						
	evaluation of the Absorbing Plate of	Dr. Shiv	Shivsankard	Zenith School of	2022-04-29	VIKASH	
61	a Hybrid Solar	sankar das	as85@gmail. com	Management	09:42:10+0000	KUMAR	Accepted
	Dryer for Potato Drying						
	Performance						
	evaluation of the Absorbing Plate of	Dr. Shiv	Shivsankard	Zenith School of	2022-05-14	SHYAM	
61	a Hybrid Solar	sankar das	as85@gmail. com	Management	08:23:38+0000	A	Accepted
	Dryer for Potato Drying		Com				
	Hydro-biological						
	assessment of small Water Harvesting						
	Ponds		Chamderany	MID Court			
64	(Talabs&Nadis) of	Dainah	Chemdrranv eersingh201	M.L.B. Govt College, Nokha	2022-05-19	Ahmed Albahnas	Dojosta-l
04	Western Rajasthan Using Physico-	R singh	5@gmail.co	(Bikaner),	07:09:43+0000	awi	Rejected
	chemical		m	Rajasthan			
	Characteristics and Phyto-planktonic						
	Indices						
	Hydro-biological assessment of small						
	Water Harvesting						
	Ponds (Talabs&Nadis) of		Chemdrrany	M.L.B. Govt	2022.05.24	NRNV	
64	Western Rajasthan	R singh	eersingh201 5@gmail.co	College, Nokha (Bikaner),	2022-05-24 09:36:08+0000	GOWRIP ATHI	Rejected
	Using Physico- chemical		m	Rajasthan		RAO	
	Characteristics and						
	Phyto-planktonic Indices						
	An Investigation of						dele
	Sick Building Syndrome (SBS)	Amol			2022-05-2 06:4 2-7-0000	hesh E	Sun Ph.D.
65	affecting health of	digambar	Apawar@ms .nicmar.ac.in	NICMAR Pune	2022-05-2000	Solar	Rejecteding
	occupants in Western	pawar	.incinar.ac.iii		00122710000	Directo College o	itional Area
	Maharashtra, India.				Poornima ISI-6. SI	CO Insti	AIPUR
67	Hydrogeologic	Dr.	Dr.priyankap andey1981@	Sangam	2022-05-26	radeep	Accepted
07	evaluayion of area around nokha,	Priyanka pandey	gmail.com	University bhilwara	02:28:56+0000	Gautam	Accepted
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	district						
68	Integrating Digital Mission and Sustainable Development Goal- 9 for Building Technologies: A study of Navratna Companies of India	Dr. Navita mahajan	Navitamahaj an07@gmail .com	Amity University	2022-05-30 08:44:23+0000	Anil Kumar Sharma	Pending
68	Integrating Digital Mission and Sustainable Development Goal- 9 for Building Technologies: A study of Navratna Companies of India	Dr. Navita mahajan	Navitamahaj an07@gmail .com	Amity University	2022-05-19 05:59:43+0000	Rashmi Kumari	Pending
70	Four-year spatiotemporal distribution & analysis of PM2.5 and its precursor air pollutants SO2, NO2 & NH3 and their impact on LST in Bengaluru city, India	Gourav suthar	2019rce9106 @mnit.ac.in	Malaviya National Institute of Technology Jaipur	2022-05-24 18:40:21+0000	Anjali peter	Accepted
71	Urban environmental challenges associated with dynamics of slum settlement	Rashmi kumari	Rashmi@nit h.ac.in	National Institute of Technology Hamirpur	2022-05-20 06:13:51+0000	Karan Singh	Accepted
71	Urban environmental challenges associated with dynamics of slum settlement	Rashmi kumari	Rashmi@nit h.ac.in	National Institute of Technology Hamirpur	2022-05-24 08:23:30+0000	Sohil Sisodiya	Accepted
72	Review on Recycling of Micro-plastics in Cigarette Butts	Mary george	Marycgeorg e30041975 @gmail.com	ANJUMAN-I- ISLAM'S ABDUL RAZZAK KALSEKAR POLYTECHNIC	2022-05-30 08:46:51+0000	Anil Kumar Sharma	Accepted
72	Review on Recycling of Micro-plastics in Cigarette Butts	Mary george	Marycgeorg e30041975 @gmail.com	ANJUMAN-I- ISLAM'S ABDUL RAZZAK KALSEKAR POLYTECHNIC	2022-05-23 09:40:20+0000	Dr. Akshay Jain	Accepted
73	Automated solar panel cleaning system using wiper mechanism	Pollapelli bhavana	B18me053@ kitsw.ac.in	Kakatiya Institute of Technology & Science	2022-05-22 07:54:52+0000	Dr. Khubi Lal Khatri	Rejected
74	An Experimental Behavior on Green Concrete utilizing Granite Slurry Waste (GSW) as Partial Substitute of Cement	Dr. Pooja gupta	Pooja.gupta @poornima. org	Poornima College of Engineering, Jaipur	2022-05-17 03:33:07+0000	Abhishek Jain	Accepted
74	An Experimental Behavior on Green Concrete utilizing Granite Slurry Waste (GSW) as Partial Substitute of Cement	Dr. Pooja gupta	Pooja.gupta @poornima. org	Poornima College of Engineering, Jaipur	2022-05-27 10:39:48+0000	Sachin Jain	Accepted
75	Driving through sustainable systems: A Study of Air Quality Index of Delhi During COVID-19 Pandemic	Seema	Seemagarg1 @gmail.com	Amity University	2022-06-03 13:44:56+0	MAHEN BPA SING AL	MEARPHOON Engineering
75	Driving through sustainable systems: A Study of Air Quality	Seema	Seemagarg1 @gmail.com	Amity University	202 08:41:26+0000	Hander Prakash	Accepted

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	Index of Delhi During COVID-19 Pandemic						
76	Energy, geopolitics and the dying arctic ice fields: an enviro- political perspective	Dr. Abhiroop chowdhur y	Abhiroop.ch owdhury@g mail.com	O. P. Jindal Global University	2022-05-20 10:21:22+0000	RAMKIR AN B	Accepted
76	Energy, geopolitics and the dying arctic ice fields: an enviro- political perspective	Dr. Abhiroop chowdhur y	Abhiroop.ch owdhury@g mail.com	O. P. Jindal Global University	2022-05-19 07:13:23+0000	Ahmed Albahnas awi	Accepted
77	A Modified Incremental Conductance MPPT Algorithm and its Comparison with Perturb & Observe Algorithm	Vedant yadav	Vedantyadav _2k18ee237 @dtu.ac.in	Delhi Technological University	2022-05-09 08:01:04+0000	Aditya R. Gautam	Accepted
77	A Modified Incremental Conductance MPPT Algorithm and its Comparison with Perturb & Observe Algorithm	Vedant yadav	Vedantyadav _2k18ee237 @dtu.ac.in	Delhi Technological University	2022-05-12 06:46:36+0000	Chandni Tiwari	Accepted
79	Gender-friendly cities and the built environment raise a few concerns	Asmita yadav	Ar.asmitaya dav@gmail. com	National Institute of Technology Hamirpur	2022-05-25 05:45:55+0000	Dr. P. Kavipriya	Accepted
80	Mapping Groundwater Potential Zone and Flood Risk Zone in the Visakhapatnam District, India.	Potta vamsi krishna prasad	Pvkprasad02 9@gmail.co m	Vignan's institute of information technology	2022-05-29 21:15:54+0000	Rajshree charan	Accepted
81	The need for legislation on renewable energy for sustainable development in india	Dr khyati kochhar	Khyati.koch har.12@gma il.com	Banasthali University	2022-05-09 18:25:27+0000	Dr. Richa Jagatramk a	Accepted
81	The need for legislation on renewable energy for sustainable development in india	Dr khyati kochhar	Khyati.koch har.12@gma il.com	Banasthali University	2022-05-23 09:40:36+0000	Dr. Akshay Jain	Accepted
82	Eco-Anxiety and Environmental Concern as Predictors of Eco- Activism	Dr. Prashasti jain	Prashasti.jai n@jaipur.ma nipal.edu	Manipal University Jaipur	2022-05-16 09:58:04+0000	Padala Raja Shekar	Accepted
82	Eco-Anxiety and Environmental Concern as Predictors of Eco- Activism	Dr. Prashasti jain	Prashasti.jai n@jaipur.ma nipal.edu	Manipal University Jaipur	2022-05-27 05:57:19+0000	Sivagurun athan Paramasiv am	Accepted
84	Effect of Pozzolanic Material on Drying Shrinkage Characteristics of Blended Cementitious Mortar	Nitesh balaji thikare	Nthikare739 1@gmail.co m	Rashtrasant Tukadoji Maharaj Nagpur University	2022-05-31 06:38:26+0000	KULDEE P KAMBOJ	Accepted
85	Tainted wastewater remediation through inverted multimedia biofilter	Dr. Ranjit N. Patil	Shaliniy197 5@gmail.co m	Priyadarshini Bhagwati College of Engineering, Nagpur	2022-05-10 20:30:30+0000	Ali P deil Nasor hesh B	Accele sundele ME. Ph.D.
85	Tainted wastewater remediation through inverted multimedia biofilter	Dr. Ranjit N. Patil	Shaliniy197 5@gmail.co m	Priyadarshini Bhagwati College of Engineering, Nagpur	2022-05-09 09-40-17	Directo College o CO Instit Apura, J	epted
86	Urban Organic	Nirjhar	Nirjhargupta	UIT- RGPV	2022-05-09	Pankaj	Accepted

	Waste as a Source of Bioenergy for Electricity	gupta	070@gmail. com		09:37:26+0000	Dumka	
	Generation in Bhopal (M.P)						
	Urban Organic						
	Waste as a Source of Bioenergy for	Nirjhar	Nirjhargupta		2022-05-15	Basuraj	
86	Electricity	gupta	070@gmail. com	UIT- RGPV	03:34:10+0000	Bhowmik	Accepted
	Generation in		Com				
	Bhopal (M.P) Strength and						
	durability of						
00	concrete by partial replacement of	Mr.dhiraj	Naxinecivil	G H RAISONI	2022-05-17	Abhishek	
88	sand by Copper	ramesh naxine	@gmail.com	UNIVERSITY, AMRAVATI	03:34:52+0000	Jain	Accepted
	Slag and cement by Egg Shell Powder:						
	A Review						
	Strength and durability of						
	concrete by partial	Mr.dhiraj		G H RAISONI			
88	replacement of sand by Copper	ramesh	Naxinecivil @gmail.com	UNIVERSITY,	2022-05-25 05:00:33+0000	Dr. P. Kavipriya	Accepted
	Slag and cement by	naxine	8	AMRAVATI			
	Egg Shell Powder: A Review						
	Life Cycle Costing	Mustafa	Msadliwala9	) (III) Y	2022.05.27	Dr.	
89	Methodology for Sustainable	soyab	7@gmail.co	MIT World Peace University Pune	2022-06-07 09:52:49+0000	Akshay	Accepted
	Construction	sadliwala	m			Jain	
	Utilization of Silica Fume and Fly ash						
	in Cement and	Mr.sudhir	Kapgate.sud	G H Raisoni	2022-06-13	Dr.	
90	Partial Substitution of Fine Aggregate	kapgate	hir68@gmail .com	University,Amrav ati	05:07:53+0000	Akshay Jain	Accepted
	Using Quarry Dust						
	in Concrete Lowcost renewable						
0.1	feedstock an	Dr(mrs)su	Sshukla3@a	A '- TT '- '-	2022-05-13	RAHUL	Changes_request
91	important source for sustainable	smita shukla	mity.edu	Amity University	07:57:06+0000	SEN	ed
	Biofuel Production						
	An Intuitive Comparison of						
	Four Meta-heuristic						
92	MPPT Algorithms for a DC-DC	Vinay	Vk390677@	Delhi Technological	2022-05-11	Aditya R.	Accepted
92	Converter based Solar PV System	kumar	gmail.com	University	08:07:10+0000	Gautam	Accepted
	under Partial						
	Shading Effect (PSE)						
	An Intuitive						
	Comparison of Four Meta-heuristic						
	MPPT Algorithms			Delhi			
92	for a DC-DC Converter based	Vinay kumar	Vk390677@ gmail.com	Technological	2022-05-24 05:23:48+0000	Dr. R. K. Kumawat	Accepted
	Solar PV System		<i>3</i>	University			
	under Partial Shading Effect						
	(PSE)						
	Design of Biogas plant: An unique						
	approach to an	M 1001-	Viitpriyanka	Vignan's institute	2022 05 12	DAIIII	Changes as
93	alternative source of energy in	M.leela priyanka	09@gmail.c	of information &	2022-05-13 09:11:46+0000	RAHUL SEN	Changes_request ed
	Vignan's institute of information &		om	technology		//	
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	approach to an		Viitpriyanka	Vignan's institute	Dist	Directo	's_request ed
93	alternative source of energy in	M.leela priyanka	09@gmail.c	of information &	2022-05-20 07	COLOS	s_request
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	of information & technology						
	teennology		l	l .	<u>l</u>	L	l

95	Approximate Climate Analysis for Assessing the Suitability of Indian Climate Zones for Hydroponic Fodder Applications	Souryadee p basak	Souryadeep. basak@teris as.ac.in	TERI University	2022-05-27 10:46:12+0000	Sachin Jain	Accepted
95	Approximate Climate Analysis for Assessing the Suitability of Indian Climate Zones for Hydroponic Fodder Applications	Souryadee p basak	Souryadeep. basak@teris as.ac.in	TERI University	2022-05-14 06:50:42+0000	Sandeep Kumar	Accepted
97	Assessment and Identification of drought prone zone in a Low Laying Area by AHP and MIF method: A GIS based study	Thiyam tamphasan a devi	Thiyam85@ gmail.com	NIT Manipur	2022-05-30 08:47:45+0000	Anil Kumar Sharma	Accepted
97	Assessment and Identification of drought prone zone in a Low Laying Area by AHP and MIF method: A GIS based study	Thiyam tamphasan a devi	Thiyam85@ gmail.com	NIT Manipur	2022-05-30 05:36:13+0000	Prem Ranjan	Accepted
98	Sustainable Rural Development through Renewable Energy Technologies: Identification of Potential Methods to Increase Rural Incomes	Dr. Sunny dawar	Sunny.dawar 86@gmail.c om	Manipal University Jaipur	2022-05-15 03:34:57+0000	Basuraj Bhowmik	Accepted
99	Studies on Passive Energy storage systems using pcms including its properties and characterization for different Engineering Applications -a review.	Priyanka	Priyankargo wda1995@g mail.com	Siddaganga Institute of Technology	2022-05-22 10:48:12+0000	Dr. Khubi Lal Khatri	Rejected
99	Studies on Passive Energy storage systems using pcms including its properties and characterization for different Engineering Applications -a review.	Priyanka	Priyankargo wda1995@g mail.com	Siddaganga Institute of Technology	2022-05-29 15:15:46+0000	Mr. Denis Jangeed	Rejected
101	Transport infrastructure investment: a comparative analysis between China, Russia and India	Preeti aneja	Paneja@ddn .upes.ac.in	University of petroleum and energy studies, dehradun	2022-05-12 11:14:59+0000	Ali Fadhil Naser	Accepted
103	Secure Authenticating system for Banking Transaction using Facial Recognition	Dr. Manu gupta	Manugupta @sreenidhi.e du.in	Sreenidhi Institute of Science and Technology	2022-06-02 16:00:19+0000	KISYED AHM' U KA' EEK	Rejected
104	Application of circular economy in wastewater treatment using biochar based adsobent derived from sewage sludge	Pooja panchappa kenchanna var	Poojapancha ppa@gmail. com	National Institute of Technology Karnataka	2022-05-24 07	Directo College CO Institution	Engineering

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104	Application of circular economy in wastewater treatment using biochar based adsobent derived from sewage sludge	Pooja panchappa kenchanna var	Poojapancha ppa@gmail. com	National Institute of Technology Karnataka	2022-05-13 14:50:54+0000	Behnaz Shirdel	Accepted
105	Sustainable Energy Efficient Green Campuses: A Systematic Literature Review and Bibliometric Analysis	Chintan pandya	Pandyachint an@gmail.c om	Anant National University	2022-05-06 06:10:17+0000	Karan Singh	Accepted
106	Wind turbine based electric vehicle battery charging technique	Vivek yadav	Viveky841 @gmail.com	Delhi Technological University	2022-05-11 17:53:03+0000	Aditya R. Gautam	Accepted
106	Wind turbine based electric vehicle battery charging technique	Vivek yadav	Viveky841 @gmail.com	Delhi Technological University	2022-05-30 15:58:33+0000	Dr. Jyoti Shukla	Accepted
107	Assessment of Fixed Rack and 1— Axis Tracking Crystalline Silicon Photovoltaic Array on Their Ideal Energy Performance	Prakhar duggal	Pduggal@a mity.edu	Amity University	2022-05-12 07:39:17+0000	Chandni Tiwari	Accepted
107	Assessment of Fixed Rack and 1— Axis Tracking Crystalline Silicon Photovoltaic Array on Their Ideal Energy Performance	Prakhar duggal	Pduggal@a mity.edu	Amity University	2022-05-20 10:44:52+0000	RAMKIR AN B	Accepted
111	Annual and seasonal assessment of variation in PM2.5 and gaseous pollutants in Bengaluru, India	Gourav suthar	2019rce9106 @mnit.ac.in	Malaviya National Institute of Technology Jaipur	2022-05-12 19:44:45+0000	Ali Fadhil Naser	Rejected
114	Trend Analysis and Forecasting of Long-Term Temperature Data to Anticipate Local Warming: A Case Study of Jawa Timur, Indonesia	Abdur rohman	Abdur@unej .ac.id	Universitas Jember	2022-05-24 18:54:16+0000	Anjali peter	Accepted
115	Formulation of Parking Demand estimation in cbds without Transit service: A Review	Dr. Debasish das	Debasish.das @jiscollege. ac.in	JIS College of Engineering, Kalyani, West Bengal	2022-06-12 15:00:50+0000	Chander Prakash	Changes_request ed
116	Formulation of Parking Demand estimation in Transit oriented cbds: A Review	Dr. Debasish das	Debasish.das @jiscollege. ac.in	JIS College of Engineering, Kalyani, West Bengal	2022-06-03 14:15:36+0000	MAHEN DRA KUMAR SINGAR	Accepted
117	Manufacturing of Brick from Medical Waste (MW)	Dr. Debasish das	Debasish.das @jiscollege. ac.in	JIS College of Engineering, Kalyani, West Bengal	2022-06-04 08:16:38+0000	Aditya R. Gautam	Changes_request ed
118	Corrosion Analysis of RCC Beam using Simplified FEM Model	Yamuna bhagwat	Yamuna.bha gwat1@gma il.com	MIT Manipal	2022-06-04 13:08:31+%	aresh	Sundele ME. Ph.D
123	Traffic Count Analysis during COVID-19: Case Study of Toll Plazas under Project Highway along Nagpur-	Kalpana n kawatheka r thakare	Kalpana@st udents.vnit.a c.in	Visvesvaraya National Institute of Technology and KITS Ramtek	2022 orange 05.5 131 0 5	Directo	

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	Jabalpur National Highway (NH44) near Nagpur, India						
124	Urban Transport Measures Inclusive of Non-Motorized Traffic in respect of Resilient and Livable City Planning	Kalpana n kawatheka r thakare	Kalpana@st udents.vnit.a c.in	Visvesvaraya National Institute of Technology and KITS Ramtek	2022-06-10 12:20:37+0000	Deepak singh	Accepted
124	Urban Transport Measures Inclusive of Non-Motorized Traffic in respect of Resilient and Livable City Planning	Kalpana n kawatheka r thakare	Kalpana@st udents.vnit.a c.in	Visvesvaraya National Institute of Technology and KITS Ramtek	2022-05-27 05:15:23+0000	Sameer Gujar	Accepted
125	Strength Behavior of Expansive Subgrade Soil Stabilized with Coronus Material	Swetha priya darshini thammadi	Swetha.tham madi@fnu.a c.fj	FIJI NATIONAL UNIVERSITY	2022-05-28 08:56:13+0000	Dr. Navita Mahajan	Accepted
126	Review of open space rules and regulations and identification of specificities for plot-level open spaces to facilitate sustainable development: An Indian case	Sameer gujar	Sameergujar. vnit@gmail. com	Visvesvaraya National Institute of Technology	2022-05-28 08:58:10+0000	Dr. Navita Mahajan	Accepted
127	Review of open space rules and regulations and identification of specificities for plot-level open spaces to facilitate sustainable development: An Indian case	Sameer gujar	Sameergujar. vnit@gmail. com	Visvesvaraya National Institute of Technology	2022-05-28 08:59:35+0000	Dr. Navita Mahajan	Accepted
127	Review of open space rules and regulations and identification of specificities for plot-level open spaces to facilitate sustainable development: An Indian case	Sameer gujar	Sameergujar. vnit@gmail. com	Visvesvaraya National Institute of Technology	2022-05-25 05:23:54+0000	Dr. P. Kavipriya	Accepted
129	Biofuel Production through Algae Route using Solar Assisted Carbon Capture Plant	Ravi kumar singh pippal	Ravesingh@ gmail.com	RKDF University, Bhopal	2022-06-07 10:42:04+0000	Dr. Akshay Jain	Accepted
131	Role of ADR methods in environmental conflicts in the light of sustainable development	Jaffar alkhayer	Jaffaralkhay er89@gmail. com	Shoolini University	2022-06-04 02:13:38+0000	Amit Madhanra o Kharwade	Accepted
131	Role of ADR methods in environmental conflicts in the light of sustainable development	Jaffar alkhayer	Jaffaralkhay er89@gmail. com	Shoolini University	2022-06-13 05:08:30+0000	Dr. Akshay Jain	Accepted
133	Response Spectrum Analysis of a RC Building Based on Complete Quadratic Combination (CQC) Method	Dr.uddipta ghosh	Uddipta.gho sh@jiscolleg e.ac.in	JIS COLLEGE OF ENGINEERING	2022-06- 12:2 - 10000	Leep	La Albert
133	Response Spectrum Analysis of a RC Building Based on	Dr.uddipta ghosh	Uddipta.gho sh@jiscolleg e.ac.in	JIS COLLEGE OF ENGINEERING	2022-06-02 16:19:12+0000	AHMED KABEER	Accepted

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	Complete Quadratic						
	Combination						
	(CQC) Method						
134	Assessment of groundwater chemistry and degree of pollution in some rural parts of sirsa using water quality index (WQI) and pollution index of groundwater (PIG)	Parul kumar	Parulsardana 3@gmail.co m	Government National College,Sirsa	2022-05-24 18:59:16+0000	Anjali peter	Accepted
134	Assessment of groundwater chemistry and degree of pollution in some rural parts of sirsa using water quality index (WQI) and pollution index of groundwater (PIG)	Parul kumar	Parulsardana 3@gmail.co m	Government National College,Sirsa	2022-05-28 07:52:56+0000	Sangeeta Choudhar y	Accepted
138	Nanotechnology and building construction: Towards effective stakeholder engagement	Swetha priya darshini thammadi	Swetha.tham madi@fnu.a c.fj	FIJI NATIONAL UNIVERSITY	2022-06-10 08:08:41+0000	Dr Biswajit Acharya	Accepted
138	Nanotechnology and building construction: Towards effective stakeholder engagement	Swetha priya darshini thammadi	Swetha.tham madi@fnu.a c.fj	FIJI NATIONAL UNIVERSITY	2022-06-10 12:21:29+0000	Deepak singh	Accepted
139	Factors affecting the Biogas Yield Production with Different Techniques: A Review	Anil gupta	Guptaanil98 12@gmail.c om	Poornima College of Engineering	2022-05-30 07:03:33+0000	Prem Ranjan	Changes_request ed
139	Factors affecting the Biogas Yield Production with Different Techniques: A Review	Anil gupta	Guptaanil98 12@gmail.c om	Poornima College of Engineering	2022-06-07 09:27:38+0000	Dr.Neha Bansal	Changes_request ed
139	Factors affecting the Biogas Yield Production with Different Techniques: A Review	Anil gupta	Guptaanil98 12@gmail.c om	Poornima College of Engineering	2022-05-28 07:41:25+0000	Ashish Solanki	Changes_request ed
140	Clean Drinking water solution for Rural India: Portable Sip-Up	Meraj ahmad	Meraj.1@iitj .ac.in	Indian Institute of Technology Jodhpur	2022-06-03 18:03:21+0000	Vinay Chahar	Accepted
140	Clean Drinking water solution for Rural India: Portable Sip-Up	Meraj ahmad	Meraj.1@iitj .ac.in	Indian Institute of Technology Jodhpur	2022-06-08 13:47:02+0000	Amit Shrivasta va	Accepted
141	Towards optimization of horizontal flow constructed wetland (HFCW) design by employing Machine Learning on the secondary datasets	Saurabh singh	2020rce9516 @mnit.ac.in	MNIT	2022-06-02 08:29:08+0000	Sangeeta Choudhar y	Accepted  ME. Ph.D.
142	Analysis of Blended Concrete Cubes under Impact loading using ANSYS	Janhavi singh	Janhavisingh _2k20ste09 @dtu.ac.in	Delhi Technological University	2022-06-05 04-11-43-6	Directo College o College o College Co	epted
142	Analysis of	Janhavi	Janhavisingh	Delhi Tashpalagiaal			Accepted
	Blended Concrete	singh	_2k20ste09	Technological	10:44:35+0000	Akshay	-

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	Cubes under Impact loading		@dtu.ac.in	University		Jain	
	using ANSYS						
143	Determination of GERR lifespan using RUSLE method and GIS integration	Ahmed salah elshobary	A.s.shobary @mtc.edu.eg	Military Technical College	2022-05-30 07:54:35+0000	Dr. Ranjit N. Patil	Rejected
144	Application of eco - friendly and smart materials for subgrade stabilization of road pavement: a review	Piyush	Piyushkolhe 007@gmail. com	Sant Gadge Baba Amravati University	2022-05-27 05:27:46+0000	Vipin Sharma	Changes_request ed
144	Application of eco - friendly and smart materials for subgrade stabilization of road pavement: a review	Piyush	Piyushkolhe 007@gmail. com	Sant Gadge Baba Amravati University	2022-05-27 11:57:04+0000	RAMKIR AN B	Changes_request ed
147	Development of machine learning-based model for prediction of PM2.5 concentration in India: a case study for Jaipur	Dr. Ruchi sharma	Ruchi.ce@m nit.ac.in	Malaviya National Institute of Technology Jaipur	2022-05-30 07:59:40+0000	Dr. Ranjit N. Patil	Rejected
149	Soil Erosion mapping using Remote Sensing and GIS - A case study of Rewa River Watershed, Naitasiri province, Fiji	Swetha priya darshini thammadi	Swetha.tham madi@fnu.a c.fj	FIJI NATIONAL UNIVERSITY	2022-05-30 08:08:45+0000	Dr. Ranjit N. Patil	Accepted
149	Soil Erosion mapping using Remote Sensing and GIS - A case study of Rewa River Watershed, Naitasiri province, Fiji	Swetha priya darshini thammadi	Swetha.tham madi@fnu.a c.fj	FIJI NATIONAL UNIVERSITY	2022-06-07 10:45:07+0000	Dr. Akshay Jain	Accepted
152	A Novel Fuzzy Direct Control of Induction Motor Drive	Dr. Gaurav jain	Gaurav.jain @poornima. org	I K Gujral Punjab Technical University, Punjab	2022-06-16 10:00:44+0000	Aditya R. Gautam	Accepted
152	A Novel Fuzzy Direct Control of Induction Motor Drive	Dr. Gaurav jain	Gaurav.jain @poornima. org	I K Gujral Punjab Technical University, Punjab	2022-06-09 10:12:23+0000	Pravin Sonwane	Accepted
153	Investigation of heat transfer enhancement of pipe heat exchanger using outer helical fins and v-fins axial inserts	Sanjay N. Havaldar	Sanjay.haval dar@mitwpu .edu.in	Dr. Vishwanath Karad World Peace University	2022-06-14 11:53:44+0000	Vishwa Deepak Kumar	Changes_request ed
153	Investigation of heat transfer enhancement of pipe heat exchanger using outer helical fins and v-fins axial inserts	Sanjay N. Havaldar	Sanjay.haval dar@mitwpu .edu.in	Dr. Vishwanath Karad World Peace University	2022-06-14 20:13:59+0000	Amit Shrivasta va	Changes_request ed
154	Digitalization of Kanban	Bhaskar tambi	Tambibhask ar@gmail.co	MIT WPU Pune	2022-05-20 10:02-01-0	SolaB	M.Enejected
155	Experimental Investigation of Drying Potato for Visakhapatnam climatic condition	Dr. Susant kumar sahu	m Susantsahuki it@gmail.co m	Vignan's Institute of Information Technology, Visakhapatnam	2022-05-7.1 10:02-01-0 2022-05- 06.5.	Mur. a	Accepted

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155	Experimental Investigation of Drying Potato for Visakhapatnam climatic condition	Dr. Susant kumar sahu	Susantsahuki it@gmail.co m	Vignan's Institute of Information Technology, Visakhapatnam	2022-05-26 16:09:57+0000	Thiyam Tamphasa na Devi	Accepted
157	GIS Mapping for Distribution of Ground Water Quality in Udaipur	Sangeeta choudhary	Sangeeta27a pr@gmail.co m	Geetanjali Institute of Technical Studies, Udaipur	2022-06-06 06:58:06+0000	Kamal Hassan	Accepted
158	Tannery Waste as a Partial Replacement of Cement in Mortar	Dr. Md. Naimul haque	Naimul@ew ubd.edu	East West University	2022-05-28 03:30:06+0000	Dr. Seelam Srikanth	Rejected
159	Numerical Analysis of RCC Beam Using ABAQUS	Hemamat hi	Hod.civil@r mkec.ac.in	R.M.K Engineering College	2022-06-02 08:56:47+0000	Abhishek Jain	Accepted
159	Numerical Analysis of RCC Beam Using ABAQUS	Hemamat hi	Hod.civil@r mkec.ac.in	R.M.K Engineering College	2022-06-15 09:34:33+0000	Dr. Paresh Gujarati	Accepted
160	Performance Rating of National Highways Based on Road User Perspective – A Case Study of Kalka–Shimla Highway	Sunil sharma	Sunils@nith. ac.in	National Institute of Technology Hamirpur, India	2022-06-07 10:46:27+0000	Dr. Akshay Jain	Accepted
162	Investigation into the Compressive Stress on Lumber Spine among Tractor Driver during different Ride Conditions	Chander prakash	Chanderpra9 5@gmail.co m	Dr. B. R. Ambedkar National Institute of Technology Jalandhar	2022-06-07 10:49:11+0000	Dr. Akshay Jain	Accepted
165	Geo-statistical analysis of ground water fluctuations for sustainable management of groundwater resources within the chaliyar basin, southwest india	Mohd izharuddin ansari	Izharansari 1 7@gmail.co m	Jamia Millia Islamia	2022-06-02 14:22:41+0000	Thiyam Tamphasa na Devi	Accepted
166	Environmental Impact Assessment of Maize Production in Northern India	Rohit kumar	Bhardwaja@ nitj.ac.in	Dr BR Ambedkar National Institute of Technology Jalandhar	2022-06-05 10:52:18+0000	Rashmi Kumari	Accepted
167	A Literature Review on Mechanical Properties of Waste PET Bottle Based Fibre	Dr. Raj kumar satankar	Rajkumar.sat ankar@poor nima.org	Poornima College of Engineering	2022-06-20 06:46:52+0000	Manoj Dubey	Accepted
168	Compressive Strength of Waste PET Bottle Based Fibre	Devendra somwansh i	Imdev.som @gmail.com	Poornima College of Engineering	2022-06-11 16:08:52+0000	Kamal Hassan	Accepted
169	Experimental Study on Strength Behaviour of Geogrid Reinforced Subgrade Soil	Swetha priya darshini thammadi	Swetha.tham madi@fnu.a c.fj	FIJI NATIONAL UNIVERSITY	2022-06-04 04:34:51+0000	Dr. Akshay Jain	Accepted
171	Optimization of Renewable Energy Resource -A Review	Dr. Raj kumar satankar	Rajkumar.sat ankar@poor nima.org	Poornima College of Engineering	2022-06-03 05:41:59+0000	Pankaj Dumka	Accepted
171	Optimization of Renewable Energy Resource -A Review	Dr. Raj kumar satankar	Rajkumar.sat ankar@poor nima.org	Poornima College of Engineering	2022-06-04 09:07:28+00°0	Dr.	Accepted
172	A Literature Review on Renewable Energy Resource and Optimization	Devendra somwansh i	Imdev.som @gmail.com	Poornima College of Engineering	20.22-06-02 09:07:23+0000	Directo College o CO Institu	Engineering
173	Performance Evoluti Treatment Plant of		Rsroopsing	h81@gmail.com	2022-06-07 10:32:41+0000	Vipin Sharma	Accepted

	Rajasthan, Ir	ndia					
175	An Investigation of Sick Building Syndrome (SBS) affecting health of occupants in Western Maharashtra, India.	Dr. Sudarshan D. Kore	Skore@nicm ar.ac.in	National Institute of Construction Management and Research (NICMAR) Pune	2022-06-15 06:29:02+0000	Vipin Sharma	Accepted
177	The Uptake of Environmental Management System by Small and Medium Enterprises (smes) in India	Dr. Hari prapan sharma	Hariprapan @gmail.com	GLA University	2022-06-10 08:23:52+0000	Chander Prakash	Accepted
178	Design and Development of the Divergent Wind Turbine	Anil gupta	Guptaanil98 12@gmail.c om	Poornima College of Engineering	2022-06-11 16:20:51+0000	Kamal Hassan	Pending
178	Design and Development of the Divergent Wind Turbine	Anil gupta	Guptaani198 12@gmail.c om	Poornima College of Engineering	2022-06-09 11:50:43+0000	Md. Mustafa Kamal	Pending
179	Energy efficient buildings in india: key area and challenges	Dr. Preeti tarkar	Preeti.tarkar @gla.ac.in	GLA University, Mathura	2022-06-14 05:45:17+0000	Amit Madhanra o Kharwade	Accepted

# LIST OF REGISTERED CANDIDATES

SN	Track	ID	Торіс	Candiadte Name	Presenter	Institute
1	Track-3	ICSEEGT2022 _T3_3002	Quality assessment of composts from different organic sources	Parveen parihar, and rakesh choudhary	Ms. Parveen parihar	Bhartiya skill developme nt university, jaipur, india
2	Track-2	ICSEEGT2022 _T2_2003	Framework for freight movement in bangalore city, india	Seelam srikanth, syed omar ballari, and sala eswar	Dr. Seelam srikanth	Reva university, bengaluru, india
3	Track-2	ICSEEGT2022 _T2_2005	Application of eco-friendly and smart materials in geotechnical engineering for subgrade stabilization: a review	Piyush v. Kolhe, and anant i. Dhatrak	Mr. Piyush v. Kolhe	Prof. Ram meghe institute of technology and research badnera, amravati, maharashtr a, india
4	Track-1	ICSEEGT2022 _T1_1010	Low frequency vibration energy harvester using compliant mechanism driven rosen-type piezoelectric transformer	Sanniva bhattacharjee, aryan kanu, arnab roy chowdhury, soumyadeep mondal, nilanjan chattaraj, and nirmal baran hui	Mr. Soumyadeep mondal	National institute of technology durgapur, india
5	Track-3	ICSEEGT2022 _T3_3011	Relationship of shading devices and its effects on daylight in commercial buildings in pune.	Neha joshi, and pradnya nishad patki	Director	- 21
				Poorn	Director ima Collage of E ima Collage of E ima Collage ima Collage	Sia

6	Track-2	ICSEEGT2022 _T2_2015	Experimental investigation of direct injection diesel engine using waste plastic oil as fuel	Jatadhara g s, t k chandrashekhar, n r banapurmath, s b nagesh, and keerthi kumar n	Mr. Jatadhara g s	Siddaganga institute of technology, b h road, tumakuru, karnataka, india
7	Track-1	ICSEEGT2022 _T1_1026	Soil dissolved organic carbon leaching characteristics of the coastal saline seepweed wetlands in the wuleidaowan national wetland	Zhang yijie, zhang haotian, zhang yihang, and tian xiujun	Ms. Zhang yijie	Department of environme ntal engineering , college of civil engineering , beijing jiaotong university, beijing, china
8	Track-2	ICSEEGT2022 _T2_2032	Perpetual flexible pavement vs. Rigid pavement: an economic and environmental cost comparison	Rahul kumar, and sunil sharma	Mr. Rahul kumar	National institute of technology hamirpur, india
9	Track-2	ICSEEGT2022 _T2_2033	Measuring the level of road safety through road safety audit and star rating method – a case study from himalayan expressway	Saurabh kumar s, and sunil sharma	Mr. Saurabh kumar s	National institute of technology hamirpur, hamirpur, india
10	Track-2	ICSEEGT2022 _T2_2034	Standard operating procedure for assessment and rating of national highways based on highway efficiency	Agrita singh, and sunil sharma	Ms. Agrita singh	National institute of technology hamirpur, india
11	Track-2	ICSEEGT2022 _T2_2035	Performance rating of national highway based on road user perspective-a case study of kalka-shimla highway	Pratik solanki, and sunil sharma	Mr. Pratik solanki	National institute of technolohy hamirpur,in dia
12	Track-2	ICSEEGT2022 _T2_2036	Psychological predictors of sustainable transportation behaviour: implications for low carbon economy and society	Bhavana arya, and shiromi chaturvedi	Dr. Bhavana arya	Manipal university jaipur, india
13	Track-2	ICSEEGT2022 _T2_2037	Spring water management to ensure long term sustainability in north eastern regions of india	Prem ranjan, pankaj kumar pandey, vanita pandey, and pema tshering lepcha	Mr. Prem ranjan	North eastern regional institute of science and technology, nirjuli, india
14	Track-2	ICSEEGT2022 _T2_2041	A study of cost comparison of flexible pavement using different soils	Bhupathi sridhar, kuchu jayasree, and m v s s sastri	Dr. M v s s sastri	Vasavi college of engineering (a),
15	Track-1	ICSEEGT2022 _T1_1042	Durability characteristics of recycled aggregates for physical and chemical properties of concrete	Rohit choudhary, so jangid, ramdayal meena, and shailesh choudhary	Mahesh Bu Mahesh B.E. M Mirector Market	M.b.m. univer " asthan, india

16	Track-2	ICSEEGT2022 _T2_2044	Modeling and optimization of the anaerobic digestion system for domestic wastewater treatment with the development of monitoring techniques	Rajshree mathur, and meena kumari sharma	Dr. Meena kumari sharma	Manipal university jaipur, india
17	Track-1	ICSEEGT2022 _T1_1045	Analysis of different buffer layers on cuo based solar cells using scaps-1d	Varun mishra, chandni tiwari, and rahul chauhan	Dr. Chandni tiwari	Graphic era (deemed to be university) dehradun, india
18	Track-2	ICSEEGT2022 _T2_2047	Traffic count analysis during covid-19: case study of toll plazas under project highway along nagpur- jabalpur national highway (nh44) near nagpur, india	Kalpana n kawathekar (thakare), dr. Vilas k bakde	Ms. Kalpana n kawathekar (thakare)	kits, ramtek, dist nagpur, india
19	Track-2	ICSEEGT2022 _T2_2050	Prediction of rainfall using hybrid svm-hho model	Lipika moharana, abinash sahoo, and dillip kumar ghose	Lipika moharana	National institute of technology silchar, india
20	Track-3	ICSEEGT2022 _T3_3051	Impact assessment of citizen engagement and citizens' experience of services on service quality in smart cities in india	Vikrant dhenge, and gopi nimbarte	Mr. Vikrant dhenge	Visvesvara ya national institute of technology nagpur, india
21	Track-2	ICSEEGT2022 _T2_2054	Chambal river water quality assessment at kota metropolis through the irrigation water quality indices from 2018-2021	Aparna sharma, kuldeep, and anil k. Mathur	Ms. Aparna sharma	University department , rajasthan technical university, kota, india
22	Track-1	ICSEEGT2022 _T1_1055	Numerical investigation of concentrated solar central billboard with hexagonal tubes	Sanjay n havaldar, harsh malapur, and kaustubh kulkarni	Mr. Harsh malapur	Mit-world peace university, pune, india
23	Track-1	ICSEEGT2022 _T1_1058	COMPARISON OF MULTI LINEAR REGRESSION AND ARTIFICIAL NEURAL NETWORKS to predict the energy consumption of residential buildings	Rajat nainwal, and aniket sharma	Mr. Rajat nainwal	National institute of technology hamirpur, india
24	Track-2	ICSEEGT2022 _T2_2059	Organic farming in the tropical, disaster-prone coasts: interventions, major challenges and a success story from sundarban biosphere reserve, india	Abhiroop chowdhury, aparna shankar iyer, santanu bhattacharyya, shaad ullah khan, and aliya naz	Dr. Aliya naz	Tagore society for rural developme nt, kolkata, india
25	Track-1	ICSEEGT2022 _T1_1060	Sustainable energy business model and strategies for marketing of clean energy products in rural areas of india	Shiv sankar das, bijaya bijeta nayak, debashree debadatta behera, rita kumari sahu,sasmita sahu, and soumyaranjan giri	Dr. Shiv sankar das	Zenith school of manageme nt, zenith group of institutions, bhubanesw
26	Track-1	ICSEEGT2022 _T1_1061	Performance evaluation of the absorbing plate of a hybrid solar dryer for potato drying	Debashree debadatta behera, r.c. mohanty, a.m. mohanty, shiv san' and bijaya bijeta na	Mahesh Bu Mahesh Be M Director Manual College of E	Centurion nology and manageme nt, odisha,

						india
27	Track-1	ICSEEGT2022 _T1_1068	Integrating digital mission and sustainable development goal-9 for building technologies: a study of navratna companies of india	Navita mahajan, vibha singh, navleen kaur, and astha gupta	Dr. Navita mahajan	Amity university, noida, india
28	Track-2	ICSEEGT2022 _T2_2070	Four-year spatiotemporal distribution & analysis of pm2.5 and its precursor air pollutant so <sub>2</sub> , no <sub>2</sub> & nh3 and their impact on lst in bengaluru city, india	Gourav suthar, rajat prakash singhal, sumit khandelwal, nivedita kaul, vinod parmar, and abhey p singh	Mr. Gourav suthar	Malaviya national institute of technology jaipur, india
29	Track-2	ICSEEGT2022 _T2_2071	Urban environmental challenges associated with dynamics of slum settlement	Rashmi kumari	Dr. Rashmi kumari	National institute of technology hamirpur,
30	Track-1	ICSEEGT2022 _T1_1072	Review on recycling of microplastics in cigarette butts	Mary christine george, and rupali pratik khadtar	Ms. Mary christine george	india Anjuman-i- islam's abdul razzak kalsekar polytechnic , new panvel, navi mumbai, india
84	Track 1	ICSEEGT2022 _T1_1072	Review on recycling of microplastics in cigarette butts	Mary christine george, and rupali pratik khadtar	rupali pratik khadtar	Anjuman-i- islam's abdul razzak kalsekar polytechnic , new panvel, navi mumbai, india
31	Track-1	ICSEEGT2022 _T1_1074	An experimental behavior on green concrete utilizing granite slurry waste (gsw) as partial substitute of cement	Sachin sharma, priyanka pandey, pooja gupta, abhay m. Shende, and rakesh bhandari	Mr. Sachin sharma	Sangam university, bhilwara, india
32	Track-2	ICSEEGT2022 _T2_2076	Energy, geopolitics and the dying arctic ice fields: an enviro- political perspective	A thangaraj, and a chowdhury	Mr. Abhilash thangaraj	Jindal school of internation al affairs, o.p. jindal global university, sonipat, haryana, india
33	Track-3	ICSEEGT2022 _T3_3079	Gender-friendly cities and the built environment raise a few concerns	Asmita yadav, and rashmi kumari	Ms. I sahira yari	National institute of oy televanipur, india
				Profile	Director ima College of E ima College of E ima College of E ima College of E ima College of E	ESTA IN

Track-2	ICSEEGT2022 _T2_2080	Mapping groundwater potential zone and flood risk zone in the visakhapatnam district, india	P. Vamsi krishna prasad, m. Leela priyanka, r. Sarath, b. Raghupathi naidu, and t. Ravi	Mr. P. Vamsi krishna prasad	Vignan's institute of information technology, visakhapat nam, india
Track-1	ICSEEGT2022 _T1_1081	The need for legislation on renewable energy for sustainable development in india	Aniket bhargava, and khyati kochhar	Mr. Aniket bhargava	Faculty of law, banasthali vidyapith village, banasthali, rajasthan, india
Track-1	ICSEEGT2022 _T1_1082	Eco-anxiety and environmental concern as predictors of eco-activism	Nishtha jain , and prashasti jain	Dr. Prashasti jain	Manipal university jaipur, india
Track-1	ICSEEGT2022 _T1_1084	Effect of pozzolanic material on drying shrinkage characteristics of blended cementitious mortar	Nitesh balaji thikare, shalini yadav, and ranjit patil	Mr. Nitesh balaji thikare	Rabindrana th tagore university, bhopal, india
Track-3	ICSEEGT2022 _T3_3085	Tainted wastewater remediation through inverted multimedia biofilter	Amit m.kharwade, shalini yadav, ranjit patil , and sunil k sharma	Mr. Amit m.kharwade	Department of civil engineering , rabindranat h tagore university, bhopal, india
Track-1	ICSEEGT2022 _T1_1086	Urban organic waste as a source of bioenergy for electricity generation in bhopal, madhya pradesh	Nirjhar gupta, jitendra patel, nitesh gupta, and amit vishwakarma	Mr. Nirjhar gupta	University institute of technology (rgpv), bhopal, india
Track-1	ICSEEGT2022 _T1_1088	Strength and durability of concrete by partial replacement of sand by copper slag and cement by egg shell powder: a review	Dhiraj naxine, and anita nag	Mr. Dhiraj ramesh naxine	G h raisoni university, amravati, india
Track-1	ICSEEGT2022 _T1_1089	Life cycle costing methodology for sustainable construction	Mustafa soyab sadliwala, and nivedita.g.gogate	Mr. Mustafa soyab sadliwala	Mit world peace university kothrud, pune, india
Track 1	ICSEEGT2022 _T1_1089	Life cycle costing methodology for sustainable construction	Mustafa soyab sadliwala, and nivedita.g.gogate	Nivedita.g.gogate	Mit world peace university pune, india
Track-1	ICSEEGT2022 _T1_1090	Utilization of silica fume and fly ash in cement and partial substitution of fine aggregate using quarry dust in concrete	Sudhir kapgate, and anjul tomar	Mr.sudhir kapgate	G h raisoni university,a mravati, india
Track-1	ICSEEGT2022 _T1_1095	Approximate climate analysis for assessing the suitability of indian climate zones for hydroponic fodder applications	Souryadeep basak, and aviruch bhatia	Mr. Sar accen	Teri school of a india
	Track-1  Track-1  Track-1  Track-1  Track-1  Track-1	Track-1         ICSEEGT2022	Track-1  Tra	Track-2         ICSEEGT2022 _T1_1081         Mapping groundare potential zone and flood risk zone in the visakhapatnam district, india         m. Leela priyanka, r. Sarah, b. Raghupathi maidu, and t. Ravi           Track-1         ICSEGT2022 _T1_1081         The need for legislation on renewable energy for sustainable development in india         Aniket bhargava, and khyati kochhar           Track-1         ICSEGT2022 _T1_1082         Eco-anxiety and environmental concern as predictors of eco-activism         Nishtha jain , and prashasti jain           Track-1         ICSEEGT2022 _T1_1084         Effect of pozzolanic material on drying shrinkage characteristics of blended cementitious mortar         Nitesh balaji thikare, shalini yadav, and ranjit patil , and sunil k sharma           Track-1         ICSEEGT2022 _T3_3085         Tainted wastewater remediation through inverted multimedia biofilter         Nirjhar gupta, jitendra patel, nitesh gupta, and amit vishwakarma           Track-1         ICSEEGT2022 _T1_1086         Strength and durability of electricity generation in bhopal, madhya pradesh         Dhiraj naxine, and anita nag           Track-1         ICSEEGT2022 _T1_1089         Life cycle costing methodology for sustainable construction         Dhiraj naxine, and anita nag           Track-1         ICSEGT2022 _T1_1089         Life cycle costing methodology for sustainable construction         Mustafa soyab sadliwala, and nivedita, g. gogate           Track-1         ICSEGGT2022 _T1_1090         Life cycle costing methodology for sustainable const	Track-1 ICSEGT2022 Track-1 ICSEG

44	Track-2	ICSEEGT2022 _T2_2097	Assessment and identification of drought prone zone in a low laying area by ahp and mif method: a gis based study	Nameirakpam momo singh, and thiyam tamphasana devi	Mr. Nameirakpam momo singh	National institute of technology manipur, india
45	Track-1	ICSEEGT2022 _T1_1098	Sustainable rural development through renewable energy technologies: identification of potential methods to increase rural incomes	Amitabh patnaik, pallavi kudal, sunny dawar, and prince dawar	Dr. Sunny dawar	Manipal university jaipur, rajasthan, india
46	Track 2	ICSEEGT2022 _T2_2101	Transport infrastructure investment: a comparative analysis between china, russia and india	Banga raju , preeti aneja, and biswajeet mishra	Ms. Preeti aneja	University of petroleum and energy studies, dehradun, india
47	Track-2	ICSEEGT2022 _T2_2104	Application of circular economy in wastewater treatment using biochar based adsorbent derived from sewage sludge	Pooja panchappa kenchannavar, and anupama surenjan	Ms. Pooja panchappa kenchannavar	National institute of technology karnataka, surtahkal, india
48	Track-1	ICSEEGT2022 _T1_1105	Sustainable energy efficient green campuses: a systematic literature review and bibliometric analysis	Chintan pandya, saurabh prajapati, and rupam gupta	Mr. Chintan pandya	Anant national university, ahmedabad , gujarat, india
49	Track-1	ICSEEGT2022 _T1_1107	Assessment of fixed rack and 1–axis tracking crystalline silicon photovoltaic array on their ideal energy performance	Prakhar duggal , ravinder kumar tomar , vigneshwaran s., vegesna rohith varma , and vekhohu puro	Mr. Vigneshwaran s	Amity school of engineering and technology, amity university, noida, uttar pradesh, india
50	Track-2	ICSEEGT2022 _T2_2114	Trend analysis and forecasting of long-term temperature data to anticipate local warming: a case study of jawa timur, indonesia	Abdur rohman, ph.d, retno utami agung wiyono and fitriani	Dr. Abdur rohman	Department of environme ntal engineering , universitas jember, jawa timur, indonesia
51	Track-2	ICSEEGT2022 _T2_2116	Formulation of parking demand estimation model in transit oriented cbds: a review	Debasish das, debargha banerjee, dibyendu das, sharmistha bhowmik, ishita roy, tanmoy sarkhel, suhel raj, and pritam das	Mr. Dibyendu das	Jis college of engineering , kalyani, west bengal, india
52	Track-1	ICSEEGT2022 _T1_1117	Manufacturing of brick from medical waste (mw)	Debasish das, debargha banerjee, swarup rudra paul, shaswatika pal, jagriti das, archanava chandra, princu kumar singh, and sujoy adhikari	Mr. Arch Ava of Indra Bu Mahesh Bu Director	Jis college of engineering kali
				POSIT	Director ima College of E PIICO Instituti Office United Institution	SIR

53	Track-3	ICSEEGT2022 _T3_3118	Corrosion analysis of rcc beam using simplified fem model	Yamuna bhagwat, gopinatha nayak, poornachandra pandit, harithakrishnan, and aishwarya lakshmi	Mrs. Yamuna bhagwat	Manipal institute of technology, manipal academy of higher education, manipal, karnataka, india
54	Track-2	ICSEEGT2022 _T2_2121	Delay models for signalised intersections with vehicle actuated controlled system in heterogeneous traffic conditions	Borigarla barhmaiah, a chandrasekar, tanala ramya, and s moses santhakumar4	Mr. Borigarla barhmaiah	National institute of technology tiruchirapp alli, india
55	Track-2	ICSEEGT2022 _T2_2125	Strength behavior of expansive subgrade soil stabilized with coronus material	Sateesh kumar pisini, and swetha priya darshini thammadi	Mr. Sateesh kumar pisini	Fiji national university, suva, fiji
56	Track-3	ICSEEGT2022 _T3_3127	Review of open space rules and regulations and identification of specificities for plot-level open spaces to facilitate sustainable development: an indian case	Sameer gujar, amit deshmukh, and reshu gupta	Mr. Sameer gujar	Visvesvara ya national institute of technology
57	Track 1	ICSEEGT2022 _T1_1129	Biofuel production through algae route using solar assisted carbon capture plant	Meenakshi samartha, ravi kumar singh pippal, and vinod krishna sethi	Dr. V.k. sethi	Rkdf university, bhopal, india
58	Track-2	ICSEEGT2022 _T2_2131	Role of adr methods in environmental conflicts in the light of sustainable development	Jaffar alkhayer, narinder gupta, and chander mohan gupta	Mr. Jaffar alkhayer	Faculty of legal science, shoolini university, solan, himachal pradesh, india
59	Track-3	ICSEEGT2022 _T3_3133	Response spectrum analysis of a rc building based on complete quadratic combination (cqc) method	Debargha banerjee, debasish das , uddipta ghosh, dina debnath, santanu debnath, snehasish malakar, ratnadwipa das, sanjoy datta, and syed ealham hossain	Ms. Dina debnath	Jis college of engineering , kalyani, west bengal, india
60	Track-3	ICSEEGT2022 _T3_3138	Nanotechnology and building construction: towards effective stakeholder engagement	Swetha priya darshini thammadi, and sateesh kumar pisini	Ms. Swetha priya darshini thammadi	Fiji national university, suva, fiji
61	Track-1	ICSEEGT2022 _T1_1140	Clean drinking water solution for rural india: portable sip-up	- 1. g. 1	Mr. / (ai shined Mahesh Bu Director College of Ima College of	onal Area

62	Track-2	ICSEEGT2022 _T2_2141	Towards optimization of horizontal flow constructed wetlands (hfcws) design by employing machine learning on the secondary datasets	Saurabh singh, n m kulshreshtha, shubham goyal, u brighu, a n bezbaruah, and a b gupta	Mr. Saurabh singh	Malaviya national institute of technology jaipur, india
63	Track-2	ICSEEGT2022 _T2_2142	Analysis of blended concrete cubes under impact loading using ansys	Janhavi singh, and shilpa pal	Ms. Janhavi singh	Delhi technologic al university, new delhi, india
64	Track-2	ICSEEGT2022 _T2_2149	Soil erosion mapping using remote sensing and gis - a case study of rewa river watershed, naitasiri province, fiji	Swetha priya darshini thammadi, and sateesh kumar pisini	Ms. Swetha priya darshini thammadi	Fiji national university, suva, fiji
65	Track-3	ICSEEGT2022 _T3_3152	A novel fuzzy direct control of induction motor drive	Bharat gothania, r.k. kumawat, gaurav jain, and annu govind	Mr. Bharat gothania	Career point university, kota, india
66	Track-1	ICSEEGT2022 _T1_1157	Gis mapping for distribution of ground water quality in udaipur	Sangeeta choudhary, denis jangeed, prithvi raj rankawat, sweety tank, and nikhil sen	Dr. Sangeeta choudhary	Geetanjali institute of technical studies, udaipur, india
67	Track-3	ICSEEGT2022 _T3_3159	Numerical analysis of rcc beam using abaqus	A.hemamathi, binu sukumar, and r.b. hambrish guru chandrakant	Ms. A.hemamathi	R.m.k. engineering college, tamil nadu, india
68	Track-2	ICSEEGT2022 _T2_2162	Investigation into the compressive stress on lumber spine among tractor driver during different ride conditions	Chander prakash, lakhwinder pal singh, and ajay gupta	Mr. Chander prakash	Dr. B. R. Ambedkar national institute of technology jalandhar, punjab, india
69	Track-2	ICSEEGT2022 _T2_2163	Correlation study of physico- chemical parameters and water quality index around kodungaiyur dumping ground	Aishwarya r., faizuneesa a., hemamathi a., ramshankar p., and yuvraj m.	Mrs. Aishwarya r	R.m.k. engineering college, tamil nadu, india
70	Track-2	ICSEEGT2022 _T2_2165	Geo-statistical analysis of ground water fluctuations for sustainable management of groundwater resources within the chaliyar basin, southwest india	Mohd izharuddin ansari, l n thakral, and quamrul hassan	Mr. Mohd izharuddin ansari	Jamia millia islamia, jamia nagar, okhla, new delhi- 110025, india
71	Track-2	ICSEEGT2022 _T2_2166	Environmental impact assessment of maize production in northern india	Rohit kumar, arvind bhardwaj, lakhwinder pal singh and gurraj singh	Mi kolat kwaar	Department of industrial and production engineering , dr. B r ambedker

72	Track-3	ICSEEGT2022 _T3_3167	A literature review on mechanical properties of waste pet bottle based fibre	Devendra kumar somwanshi, vijay prakash sharma, shikha sharma, and kalpit jain	Mr. Vijay prakash sharma	Manipal university jaipur, india
73	Track-3	ICSEEGT2022 _T3_3168	Compressive strength of waste pet bottle based fibre	Devendra kumar somwanshi, vijay prakash sharma, sikha sharma, kalpit jain	Mr. Vijay prakash sharma	Manipal university jaipur, india
74	Track-1	ICSEEGT2022 _T1_1169	Experimental and numerical investigation on strength behaviour of geogrid reinforced subgrade soil	Sateesh kumar pisini, swetha priya darshini thammadi, monish nadan, naadirah edward, and shaniza farnaz nisha	Mr. Sateesh kumar pisini	Fiji national university, suva, fiji
75	Track-1	ICSEEGT2022 _T1_1171	Optimization of renewable energy resource -a review	Vijay prakash sharma, devendra kumar somwanshi, kalpit jain, and raj kumar satankar	Mr. Vijay prakash sharma	Manipal university jaipur, india
76	Track-1	ICSEEGT2022 _T1_1172	A literature review on renewable energy resource and optimization	Vijay prakash sharma, devendra kumar somwanshi, kalpit jain, and raj kumar satankar	Mr. Vijay prakash sharma	Manipal university jaipur, india
77	Track-2	ICSEEGT2022 _T2_2173	Performance evalution of water treatment plant of kekri, rajasthan, india	Roop singh sinsinwar, and munna verma	Mr. Roop singh sinsinwar	Bhagwant university ajmer, rajasthan, india
78	Track-2	ICSEEGT2022 _T2_2175	An investigation of sick building syndrome (sbs) affecting health of occupants in western maharashtra, india.	Amol d pawar, anil agarwal, babalu rajput, and sudarshan d kore	Dr. Amol d pawar	National institute of constructio n manageme nt ( nicmar  ) pune campus, pune, india
79	Track-1	ICSEEGT2022 _T1_1177	The uptake of environmental management system by small and medium enterprises (smes) in india	Hari prapan sharma, and kishore kumar	Dr. Hari prapan sharma	Gla university, mathura, india
80	Track-3	ICSEEGT2022 _T3_3178	Design and development of the divergent wind turbine	Himanshu rajput, anil gupta, harihar sah, manoj gattani, and raj kumar satankar	Mr.himanshu rajput	Poornima college of engineering , jaipur, india
81	Track-3	ICSEEGT2022 _T3_3179	Energy efficient buildings in india: key area and challenges	Preeti tarkar	Dr. Preeti tarkar	Gla university, mathura, india
82	Track-2	ICSEEGT2022 _T2_2180	Emission performance assessment of in-use diesel- driven cars	Abhinav pandey, rajeev kumar mishra, and govind pandey	Mr. Abhinav pandey	Delhi technologic al university, new delhi, india
83	Track-1	ICSEEGT2022 _T1_1183	Techno-economic assessment of lpg operated porous radiant burner based cook-stoves for commercial cooking applications	Sofia rani shaik, p muthukumar, pratul and chandra kalita	Mahesh si Bu	ngillarea
84	Track-1	ICSEEGT2022 _T1_1082	Eco-anxiety and environmental concern as predictors of eco-activism	Nishtha jain , an prashasti jain	Shirtha jain	anipal university jaipur, india

ł				Faculty of
86	The need for legislation on renewable energy for sustainable development in	Aniket bhargava, and khyati kochhar	Khyati kochhar	law, banasthali vidyapith village,
	india			banasthali, rajasthan,
l l				india

# LIST OF ATTENDED CANDIDATES

SN	Track	ID	Topic	Name	Presenter	Institute
1	Track-3	ICSEEGT2022 _T3_3002	Quality assessment of composts from different organic sources	Parveen parihar, and rakesh choudhary	Ms. Parveen parihar	Bhartiya skill developm ent university , jaipur, india
2	Track-2	ICSEEGT2022 _T2_2003	Framework for freight movement in bangalore city, india	Seelam srikanth, syed omar ballari, and sala eswar	Dr. Seelam srikanth	Reva university , bengaluru , india
3	Track-2	ICSEEGT2022 _T2_2005	Application of eco-friendly and smart materials in geotechnical engineering for subgrade stabilization: a review	Piyush v. Kolhe, and anant i. Dhatrak	Mr. Piyush v. Kolhe	Prof. Ram meghe institute of technolog y and research badnera, amravati, maharasht ra, india
4	Track-1	ICSEEGT2022 _T1_1010	Low frequency vibration energy harvester using compliant mechanism driven rosen-type piezoelectric transformer	Sanniva bhattacharjee, aryan kanu, arnab roy chowdhury, soumyadeep mondal, nilanjan chattaraj, and nirmal baran hui	Mr. Soumyadeep mondal	National institute of technolog y durgapur, india
5	Track-3	ICSEEGT2022 _T3_3011	Relationship of shading devices and its effects on daylight in commercial buildings in pune.	Neha joshi, and pradnya nishad patki	Mrs. Neha joshi	Mksss's dr. B. N. College of architectu re, pune, india
6	Track-2	ICSEEGT2022 _T2_2015	Experimental investigation of direct injection diesel engine using waste plastic oil as fuel	Jatadhara g s, t k chandrashekhar, n r banapurmath, s b nagesh, and keerthi kumar n	Mr. Jatadhara g s	Siddagang a institute of technolog y, b h road, tumakuru, karnataka, india
7	Track-1	ICSEEGT2022 _T1_1026	Soil dissolved organic carbon leaching characteristics of the coastal saline seepweed wetlands in the wuleidaowan national wetland	zhang yijie, zhang haotian, zhang yih and tian xiujun	Nas. Zhanga	Departme nt of environm

						, beijing, china
						National
8	Track-2	ICSEEGT2022 _T2_2032	Perpetual flexible pavement vs. Rigid pavement: an economic and environmental cost comparison	Rahul kumar, and sunil sharma	Mr. Rahul kumar	institute of technolog y hamirpur,
9	Track-2	ICSEEGT2022 _T2_2033	Measuring the level of road safety through road safety audit and star rating method – a case study from himalayan expressway	Saurabh kumar s, and sunil sharma	Mr. Saurabh kumar s	india  National institute of technolog y hamirpur, hamirpur, india
10	Track-2	ICSEEGT2022 _T2_2034	Standard operating procedure for assessment and rating of national highways based on highway efficiency	Agrita singh, and sunil sharma	Ms. Agrita singh	National institute of technolog y hamirpur, india
11	Track-2	ICSEEGT2022 _T2_2035	Performance rating of national highway based on road user perspective-a case study of kalka-shimla highway	Pratik solanki, and sunil sharma	Mr. Pratik solanki	National institute of technoloh y hamirpur, india
12	Track-2	ICSEEGT2022 _T2_2036	Psychological predictors of sustainable transportation behaviour: implications for low carbon economy and society	Bhavana arya, and shiromi chaturvedi	Dr. Bhavana arya	Manipal university jaipur, india
13	Track-2	ICSEEGT2022 _T2_2037	Spring water management to ensure long term sustainability in north eastern regions of india	Prem ranjan, pankaj kumar pandey, vanita pandey, and pema tshering lepcha	Mr. Prem ranjan	North eastern regional institute of science and technolog y, nirjuli, india
14	Track-2	ICSEEGT2022 _T2_2041	A study of cost comparison of flexible pavement using different soils	Bhupathi sridhar, kuchu jayasree, and m v s s sastri	Dr. M v s s sastri	Vasavi college of engineerin g (a), hyderaba d, india
15	Track-1	ICSEEGT2022 _T1_1042	Durability characteristics of recycled aggregates for physical and chemical properties of concrete	Rohit choudhary, satish jangid, ramdayal meena, and shailesh choudhary	Mr. Rohit choudh y	M.b.m. university jodhpur
				Dr.	Mahesh Bu Mahesh B.E. Director Director Ima College of E Ima College of E Ima College of E Ima College of E	ngineerin lonal Area

16	Track-2	ICSEEGT2022 _T2_2044	Modeling and optimization of the anaerobic digestion system for domestic wastewater treatment with the development of monitoring techniques	Rajshree mathur, and meena kumari sharma	Dr. Meena kumari sharma	Manipal university jaipur, india
17	Track-1	ICSEEGT2022 _T1_1045	Analysis of different buffer layers on cuo based solar cells using scaps-1d	Varun mishra, chandni tiwari, and rahul chauhan	Dr. Chandni tiwari	Graphic era (deemed to be university ) dehradun, india
18	Track-2	ICSEEGT2022 _T2_2047	Traffic count analysis during covid-19: case study of toll plazas under project highway along nagpur- jabalpur national highway (nh44) near nagpur, india	Kalpana n kawathekar (thakare), dr. Vilas k bakde	Ms. Kalpana n kawathekar (thakare)	kits, ramtek, dist nagpur, india
19	Track-2	ICSEEGT2022 _T2_2050	Prediction of rainfall using hybrid svm-hho model	Lipika moharana, abinash sahoo, and dillip kumar ghose	Lipika moharana	National institute of technolog y silchar, india
20	Track-3	ICSEEGT2022 _T3_3051	Impact assessment of citizen engagement and citizens' experience of services on service quality in smart cities in india	Vikrant dhenge, and gopi nimbarte	Mr. Vikrant dhenge	Visvesvar aya national institute of technolog y nagpur, india
21	Track-2	ICSEEGT2022 _T2_2054	Chambal river water quality assessment at kota metropolis through the irrigation water quality indices from 2018-2021	Aparna sharma, kuldeep, and anil k. Mathur	Ms. Aparna sharma	University departme nt, rajasthan technical university , kota, india
22	Track-1	ICSEEGT2022 _T1_1055	Numerical investigation of concentrated solar central billboard with hexagonal tubes	Sanjay n havaldar, harsh malapur, and kaustubh kulkarni	Mr. Harsh malapur	Mit-world peace university , pune, india
23	Track-1	ICSEEGT2022 _T1_1058	COMPARISON OF MULTI LINEAR REGRESSION AND ARTIFICIAL NEURAL NETWORKS to predict the energy consumption of residential buildings	RAJAT NAINWAL, AND ANIKET SHARMA	MR. RAJAT NAINWAL	NATION AL INSTITUT E OF TECHNO LOGY HAMIRP UR, INDIA
24	Track-2	ICSEEGT2022 _T2_2059	Organic farming in the tropical, disaster-prone coasts: interventions, major challenges and a success story from sundarban biosphere reserve, india	Abhiroop chowdhury, aparna shankar iyer, santanu bhattacharyya, shaad ullah khan, and aliya naz	Dr. Aliya naz	Tagore society for rural developm ent,
				Poorn	Mahesi B.E., M Director Director Ima College of E Ima College of E	ingineering ional Area

25	Track-1	ICSEEGT2022 _T1_1060	Sustainable energy business model and strategies for marketing of clean energy products in rural areas of india	Shiv sankar das, bijaya bijeta nayak, debashree debadatta behera, rita kumari sahu,sasmita sahu, and soumyaranjan giri	Dr. Shiv sankar das	Zenith school of managem ent, zenith group of institution s, bhubanes war, odisha, india
26	Track-1	ICSEEGT2022 _T1_1061	Performance evaluation of the absorbing plate of a hybrid solar dryer for potato drying	Debashree debadatta behera, r.c. mohanty, a.m. mohanty, shiv sankar das, and bijaya bijeta nayak	Mrs. Debashree debadatta behera	Centurion university of technolog y and managem ent, odisha, india
27	Track-1	ICSEEGT2022 _T1_1068	Integrating digital mission and sustainable development goal-9 for building technologies: a study of navratna companies of india	Navita mahajan, vibha singh, navleen kaur, and astha gupta	Dr. Navita mahajan	Amity university , noida, india
28	Track-2	ICSEEGT2022 _T2_2070	Four-year spatiotemporal distribution & analysis of pm2.5 and its precursor air pollutant so <sub>2</sub> , no <sub>2</sub> & nh3 and their impact on 1st in bengaluru city, india	Gourav suthar, rajat prakash singhal, sumit khandelwal, nivedita kaul, vinod parmar, and abhey p singh	Mr. Gourav suthar	Malaviya national institute of technolog y jaipur, india
29	Track-2	ICSEEGT2022 _T2_2071	Urban environmental challenges associated with dynamics of slum settlement	Rashmi kumari	Dr. Rashmi kumari	National institute of technolog y hamirpur, india
30	Track-1	ICSEEGT2022 _T1_1072	Review on recycling of microplastics in cigarette butts	Mary christine george, and rupali pratik khadtar	Ms. Mary christine george	Anjuman- i-islam's abdul razzak kalsekar polytechni c, new panvel, navi mumbai,, india
84	Track 1	ICSEEGT2022 _T1_1072	Review on recycling of microplastics in cigarette butts	Mary christine george, and rupali pratik khadtar	rupali pratik khadtar	Anjuman- i-islam's abdul razzak kalsekar polytechni c, new panvel, navi mumbai,
31	Track-1	ICSEEGT2022 _T1_1074	An experimental behavior on green concrete utilizing granite slurry waste (gsw) as partial substitute of cement	Sachin sharma priyanka pand ,, pooja gupta, abhay m. Shende, and rabod bhandari	IN SHOO IN TAIL	Sarganna ilwara, india

32	Track-2	ICSEEGT2022 _T2_2076	Energy, geopolitics and the dying arctic ice fields: an enviro- political perspective	a thangaraj, and a chowdhury	Mr. Abhilash thangaraj	Jindal school of internatio nal affairs, o.p. jindal global university , sonipat, haryana, india
33	Track-3	ICSEEGT2022 _T3_3079	Gender-friendly cities and the built environment raise a few concerns	asmita yadav, and rashmi kumari	Ms. Asmita yadav	National institute of technolog y hamirpur, india
34	Track-2	ICSEEGT2022 _T2_2080	Mapping groundwater potential zone and flood risk zone in the visakhapatnam district, india	p. Vamsi krishna prasad, m. Leela priyanka, r. Sarath, b. Raghupathi naidu, and t. Ravi	Mr. P. Vamsi krishna prasad	Vignan's institute of informatio n technolog y, visakhapa tnam, india
35	Track-1	ICSEEGT2022 _T1_1081	The need for legislation on renewable energy for sustainable development in india	aniket bhargava, and khyati kochhar	Mr. Aniket bhargava	Faculty of law, banasthali vidyapith village, banasthali , rajasthan, india
36	Track-1	ICSEEGT2022 _T1_1082	Eco-anxiety and environmental concern as predictors of eco-activism	nishtha jain , and prashasti jain	Dr. Prashasti jain	Manipal university jaipur, india
37	Track-1	ICSEEGT2022 _T1_1084	Effect of pozzolanic material on drying shrinkage characteristics of blended cementitious mortar	Nitesh balaji thikare, shalini yadav, and ranjit patil	Mr. Nitesh balaji thikare	Rabindran ath tagore university , bhopal, india
38	Track-3	ICSEEGT2022 _T3_3085	Tainted wastewater remediation through inverted multimedia biofilter	amit m.kharwade, shalini yadav, ranjit patil , and sunil k sharma	Mr. Amit m.kharwade	Departme nt of civil engineerin g, rabindran ath tagore university , bhopal, india
39	Track-1	ICSEEGT2022 _T1_1086	Urban organic waste as a source of bioenergy for electricity generation in bhopal, madhya pradesh	nirjhar gupta, jitendra patel, nitesh gupta, and amit vishwakarma	Mr. Nirjhar gupta	University institute of technolog y (rgpv), bhopal, india
40	Track-1	ICSEEGT2022 _T1_1088	Strength and durability of concrete by partial replacement of sand by copper slag and cement by egg shell powder: a review	dhiraj naxine, and anitanag	Nr. Shirai an Bu Maxing E	Gh 'E-Eversity L, am-3

41	Track-1	ICSEEGT2022 _T1_1089	Life cycle costing methodology for sustainable construction	mustafa soyab sadliwala, and nivedita.g.gogate	Mr. Mustafa soyab sadliwala	Mit world peace university kothrud, pune, india
85	Track 1	ICSEEGT2022 _T1_1089	Life cycle costing methodology for sustainable construction	mustafa soyab sadliwala, and nivedita.g.gogate	Nivedita.g.gogate	Mit world peace university pune, india
42	Track-1	ICSEEGT2022 _T1_1090	Utilization of silica fume and fly ash in cement and partial substitution of fine aggregate using quarry dust in concrete	sudhir kapgate, and anjul tomar	Mr.sudhir kapgate	G h raisoni university ,amravati, india
43	Track-1	ICSEEGT2022 _T1_1095	Approximate climate analysis for assessing the suitability of indian climate zones for hydroponic fodder applications	souryadeep basak, and aviruch bhatia	Mr. Souryadeep basak	Teri school of advanced studies, new, india
44	Track-2	ICSEEGT2022 _T2_2097	Assessment and identification of drought prone zone in a low laying area by ahp and mif method: a gis based study	nameirakpam momo singh, and thiyam tamphasana devi	Mr. Nameirakpam momo singh	National institute of technolog y manipur, india
45	Track-1	ICSEEGT2022 _T1_1098	Sustainable rural development through renewable energy technologies: identification of potential methods to increase rural incomes	amitabh patnaik, pallavi kudal, sunny dawar, and prince dawar	Dr. Sunny dawar	Manipal university jaipur, rajasthan, india
46	Track 2	ICSEEGT2022 _T2_2101	Transport infrastructure investment: a comparative analysis between china, russia and india	banga raju , preeti aneja, and biswajeet mishra	Ms. Preeti aneja	University of petroleum and energy studies, dehradun, india
47	Track-2	ICSEEGT2022 _T2_2104	Application of circular economy in wastewater treatment using biochar based adsorbent derived from sewage sludge	pooja panchappa kenchannavar, and anupama surenjan	Ms. Pooja panchappa kenchannavar	National institute of technolog y karnataka, surtahkal, india
48	Track-1	ICSEEGT2022 _T1_1105	Sustainable energy efficient green campuses: a systematic literature review and bibliometric analysis	chintan pandya, saurabh prajapati, and rupam gupta	Mr. Chintan pandya	Anant national university , ahmedaba d, gujarat, india
49	Track-1	ICSEEGT2022 _T1_1107	Assessment of fixed rack and 1-axis tracking crystalline silicon photovoltaic array on their ideal energy performance	prakhar duggal, ravinder kumar tomar vigneshwaran, vegesna rohith varma, and vekhohu	wr. Vignesh	Amity school of to in

						india
50	Track-2	ICSEEGT2022 _T2_2114	Trend analysis and forecasting of long-term temperature data to anticipate local warming: a case study of jawa timur, indonesia	abdur rohman, ph.d, retno utami agung wiyono and fitriani	Dr. Abdur rohman	Departme nt of environm ental engineerin g, universita s jember, jawa timur, indonesia
51	Track-2	ICSEEGT2022 _T2_2116	Formulation of parking demand estimation model in transit oriented cbds: a review	Debasish das, debargha banerjee, dibyendu das, sharmistha bhowmik, ishita roy, tanmoy sarkhel, suhel raj, and pritam das	Mr. Dibyendu das	Jis college of engineerin g, kalyani, west bengal, india
52	Track-1	ICSEEGT2022 _T1_1117	Manufacturing of brick from medical waste (mw)	Debasish das, debargha banerjee, swarup rudra paul, shaswatika pal, jagriti das, archanava chandra, princu kumar singh, and sujoy adhikari	Mr. Archanava chandra	Jis college of engineerin g, kalyani, west bengal, india
53	Track-3	ICSEEGT2022 _T3_3118	Corrosion analysis of rcc beam using simplified fem model	yamuna bhagwat, gopinatha nayak, poornachandra pandit, harithakrishnan, and aishwarya lakshmi	Mrs. Yamuna bhagwat	Manipal institute of technolog y, manipal academy of higher education, manipal, karnataka, india
54	Track-2	ICSEEGT2022 _T2_2121	Delay models for signalised intersections with vehicle actuated controlled system in heterogeneous traffic conditions	borigarla barhmaiah, a chandrasekar, tanala ramya, and s moses santhakumar4	Mr. Borigarla barhmaiah	National institute of technolog y tiruchirap palli, india
55	Track-2	ICSEEGT2022 _T2_2125	Strength behavior of expansive subgrade soil stabilized with coronus material	sateesh kumar pisini, and swetha priya darshini thammadi	Mr. Sateesh kumar pisini	Fiji national university , suva, fiji
56	Track-3	ICSEEGT2022 _T3_3127	Review of open space rules and regulations and identification of specificities for plot-level open spaces to facilitate sustainable development: an indian case	sameer gujar, amit deshmukh, and reshu gupta	Mr. Sameer guiar	Visvesvar aya national institute of techning
57	Track 1	ICSEEGT2022 _T1_1129	Biofuel production through algae route using solar assisted carbon capture plant	Meenakshi sama ada, ravi kumar singh pippal, and vi krishna sethi	Director Director ima College of E ima College of E ima College of E ima College of E ima College of E	versity , bnopal, india

58	Track-2	ICSEEGT2022 _T2_2131	Role of adr methods in environmental conflicts in the light of sustainable development	jaffar alkhayer, narinder gupta, and chander mohan gupta	Mr. Jaffar alkhayer	Faculty of legal science, shoolini university , solan, himachal pradesh, india
59	Track-3	ICSEEGT2022 _T3_3133	Response spectrum analysis of a rc building based on complete quadratic combination (cqc) method	debargha banerjee, debasish das , uddipta ghosh, dina debnath, santanu debnath, snehasish malakar, ratnadwipa das, sanjoy datta, and syed ealham hossain	Ms. Dina debnath	Jis college of engineerin g, kalyani, west bengal, india
60	Track-3	ICSEEGT2022 _T3_3138	Nanotechnology and building construction: towards effective stakeholder engagement	swetha priya darshini thammadi, and sateesh kumar pisini	Ms. Swetha priya darshini thammadi	Fiji national university , suva, fiji
61	Track-1	ICSEEGT2022 _T1_1140	Clean drinking water solution for rural india: portable sip-up	meraj ahmad, arti sharma, quadri s. Mujtaba, saurabh yadav, ritwik kulkarni, sandeep gupta, amrita k. Nighojkar, raj kumar satankar, meenu chhabra, ambesh dixit, and anand plappally	Mr. Meraj ahmad	Indian institute of technolog y, jodhpur, india
62	Track-2	ICSEEGT2022 _T2_2141	Towards optimization of horizontal flow constructed wetlands (hfcws) design by employing machine learning on the secondary datasets	saurabh singh, n m kulshreshtha, shubham goyal, u brighu, a n bezbaruah, and a b gupta	Mr. Saurabh singh	Malaviya national institute of technolog y jaipur, india
63	Track-2	ICSEEGT2022 _T2_2142	Analysis of blended concrete cubes under impact loading using ansys	janhavi singh, and shilpa pal	Ms. Janhavi singh	Delhi technologi cal university , new delhi, india
64	Track-2	ICSEEGT2022 _T2_2149	Soil erosion mapping using remote sensing and gis - a case study of rewa river watershed, naitasiri province, fiji	swetha priya darshini thammadi, and sateesh kumar pisini	Ms. Swetha priya darshini thammadi	Fiji national university , suva, fiji
65	Track-3	ICSEEGT2022 _T3_3152	A novel fuzzy direct control of induction motor drive	bharat gothania, r.k. kumawat, gaurav jain, and annu govind	Mr. Bharat gothania	Career point university , kota, india
66	Track-1	ICSEEGT2022 _T1_1157	Gis mapping for distribution of ground water quality in udaipur	sangeeta choudhary, denis jangeed, prithvi raj rankawat, sw tank, and nikhil sen	College of the colleg	ngineering

67	Track-3	ICSEEGT2022 _T3_3159	Numerical analysis of rcc beam using abaqus	a.hemamathi, binu sukumar, and r.b. hambrish guru chandrakant	Ms. A.hemamathi	R.m.k. engineerin g college, tamil nadu, india
68	Track-2	ICSEEGT2022 _T2_2162	Investigation into the compressive stress on lumber spine among tractor driver during different ride conditions	Chander prakash, lakhwinder pal singh, and ajay gupta	Mr. Chander prakash	Dr. B. R. Ambedka r national institute of technolog y jalandhar, punjab, india
69	Track-2	ICSEEGT2022 _T2_2163	Correlation study of physico-chemical parameters and water quality index around kodungaiyur dumping ground	Aishwarya r., faizuneesa a., hemamathi a., ramshankar p., and yuvraj m.	Mrs. Aishwarya r	R.m.k. engineerin g college, tamil nadu, india
70	Track-2	ICSEEGT2022 _T2_2165	Geo-statistical analysis of ground water fluctuations for sustainable management of groundwater resources within the chaliyar basin, southwest india	mohd izharuddin ansari, l n thakral, and quamrul hassan	Mr. Mohd izharuddin ansari	Jamia millia islamia, jamia nagar, okhla, new delhi- 110025, india
71	Track-2	ICSEEGT2022 _T2_2166	Environmental impact assessment of maize production in northern india	Rohit kumar, arvind bhardwaj, lakhwinder pal singh and gurraj singh	Mr. Rohit kumar	Departme nt of industrial and productio n engineerin g, dr. B r ambedkar national institute of technolog y, jalandhar, punjab, india- 144027nit jalandhar
72	Track-3	ICSEEGT2022 _T3_3167	A literature review on mechanical properties of waste pet bottle based fibre	Devendra kumar somwanshi, vijay prakash sharma, shikha sharma, and kalpit jain	Mr. Vijay prakash sharma	Manipal university jaipur, india
73	Track-3	ICSEEGT2022 _T3_3168	Compressive strength of waste pet bottle based fibre	Devendra kumar somwanshi, vijay prakash sharma, sikha sharma, kalpit jain	Mr. Vijay prakash sharma	Manipal university jaipur, india
74	Track-1	ICSEEGT2022 _T1_1169	Experimental and numerical investigation on strength behaviour of geogrid reinforced subgrade soil	sateesh kumar pisini, swetha priya darshini thammadi, monish nadan, naadirah edward, and shaniza farnaz nisha	Mi. Soler at kumar pisin	Fiji nati 2. 30 'y , suva, fiji

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75	Track-1	ICSEEGT2022 _T1_1171	Optimization of renewable energy resource -a review	vijay prakash sharma, devendra kumar somwanshi, kalpit jain, and raj kumar satankar	Mr. Vijay prakash sharma	Manipal university jaipur, india
76	Track-1	ICSEEGT2022 _T1_1172	A literature review on renewable energy resource and optimization	Vijay prakash sharma, devendra kumar somwanshi, kalpit jain, and raj kumar satankar	Mr. Vijay prakash sharma	Manipal university jaipur, india
77	Track-2	ICSEEGT2022 _T2_2173	Performance evalution of water treatment plant of kekri, rajasthan, india	roop singh sinsinwar, and munna verma	Mr. Roop singh sinsinwar	Bhagwant university ajmer, rajasthan, india
78	Track-2	ICSEEGT2022 _T2_2175	An investigation of sick building syndrome (sbs) affecting health of occupants in western maharashtra, india.	amol d pawar, anil agarwal, babalu rajput, and sudarshan d kore	Dr. Amol d pawar	National institute of constructi on managem ent ( nicmar) pune campus, pune, india
79	Track-1	ICSEEGT2022 _T1_1177	The uptake of environmental management system by small and medium enterprises (smes) in india	hari prapan sharma, and kishore kumar	Dr. Hari prapan sharma	Gla university , mathura, india
80	Track-3	ICSEEGT2022 _T3_3178	Design and development of the divergent wind turbine	Himanshu rajput, anil gupta, harihar sah, manoj gattani, and raj kumar satankar	Mr.himanshu rajput	Poornima college of engineerin g, jaipur, india
81	Track-3	ICSEEGT2022 _T3_3179	Energy efficient buildings in india: key area and challenges	preeti tarkar	Dr. Preeti tarkar	Gla university , mathura, india
82	Track-2	ICSEEGT2022 _T2_2180	Emission performance assessment of in-use diesel- driven cars	abhinav pandey, rajeev kumar mishra, and govind pandey	Mr. Abhinav pandey	Delhi technologi cal university , new delhi, india
83	Track-1	ICSEEGT2022 _T1_1183	Techno-economic assessment of lpg operated porous radiant burner based cook-stoves for commercial cooking applications	sofia rani shaik, p muthukumar, pratul and chandra kalita	Ms. Sofia rani shaik	Indian institute of technolog y guwahati, india
84	Track-1	ICSEEGT2022 _T1_1082	Eco-anxiety and environmental concern as predictors of eco-activism	nishtha jain , and prashasti jain	Ms. Nishtha jain	Manipal university jaipur, india
86			The need for legislation on renewable energy for sustainable development in india	Aniket bhargava, and khyati kochhar	Mahes B.E. Mahes B.E.	Faculty of law, banasthali vidy h canasthali canasthali

### SAMPLE COPY CERTIFICATE

	nt and Green Te	
	(ICSEEGT 2022) HYBRID MODE	Publication Support
Organized by	June 24-25, 2022	
POORNIMA COLLEGE OF ENGINEERING Affiliated to RTU, Kota - Approved by AICTE & UGC under 2(f) - Accredited by NBA		IOP Conference Series Earth and Environmental Science
CERTI	FICATE OF PARTICIPA	ATION
Certificate ID:		
This is to certify that	932 @	
of		
has attended in the <b>International</b>	Conference on Sustainable E	nergy, Environment and Green
Technologies (ICSEEGT 2022)	) held du <mark>ring</mark> Jun <mark>e 24-25</mark> , 20	021, at Poornima College of
Engineering, Jaipur, Rajasthan,	India.	
Perja	Edoura	87 C3
<b>Dr. Pooja Gupta</b> Organising Secretary, ICSEEGT 2022	Dr. Raj Kumar Satankar Organising Secretary, ICSEEGT 2022	Dr. Mahesh M. Bundele General Chair, ICSEEGT 2022

### **VALEDICTORY SESSION:**



# **FEEDBACK ANALYSIS:**

2. The organization of the conference was?

1 2 3 4 5

3. Technical Sessions were informative and managed well.

1 2 3 4 5

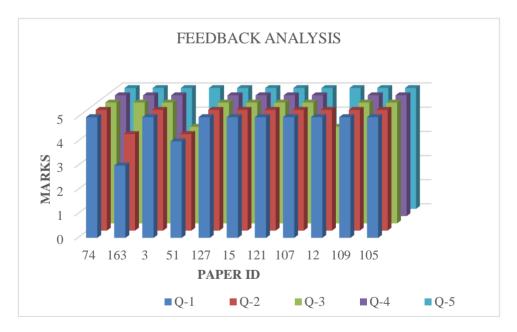
4. How do you rate Keynote Speaker's talk? \*

1 2 3 4 5

5. Knowledge sharing during the conference? \*

6. Timely Information sharing with participants, and responses from the organizers

1 2 3 4 5 O O O O



**SWOT ANALYSIS: Nil** 

Dr. Mahesh Bundele BE. M.E., Ph.D. Director Director Engineering Poornima College of Engineering Pilipura, JAIPUR SHapura, JAIPUR

# **BUDGET & ACTUALS:**

S. NO.	EXPENDITURE	RATE	QUANTIT Y	AMOUNT
1	Session Chair Honorarium			15000
2	Best Paper Award			10750
3	Paper Publication Fee (@ 80 Dollar)	6386	83	530038
4	Souvenir Print	4000	3	12000
5	Inaugural Expenditure			
6	Other Expenditure			
			DTAL DITUTRE	578538





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# **CONFERENCE REPORT**

Third International Conference on Artificial Intelligence: Advances and Applications-2022 (ICAIAA-2022)

**TITLE AND DURATION:** Third International Conference on "Artificial Intelligence: Advances and Applications, ICAIAA-2022" (April 23-24, 2022).

**SPONSORS:** RTU TEQIP-III.

**SUPPORTERS:** Rajasthan Technical University (RTU), Kota.

**ORGANIZING PARTNERS:** Poornima College of Engineering, Jaipur and Rajasthan Technical University, Kota in association with Soft Computing Research Society (SCRS)

**PUBLISHER(S):** Springer

# THEMES/TRACKS:

**Track-1-** Artificial Intelligence

**Track-2-** Intelligent Sensor, Devices & Applications

# **OBJECTIVES:**

Poornima College of Engineering, Jaipur and Rajasthan Technical University Kota in association with Soft Computing Research Society (SCRS) jointly organized the 3rd International Conference on Artificial Intelligence: Advances and Applications (ICAIAA-2022) in Virtual Format during April 23-24, 2022.

**ICAIAA-2022** (International Conference on Artificial Intelligence: Advances and Applications-2022) is a two-day conference which aims to bring together leading academic scientists, researchers and research scholars to exchange and shale their experience and research results on all aspects of Engineering Applications of Artificial Intelligence and discuss the most recent innovations, trends, and correct in Applications of Artificial Intelligence. This conference covers research works carried out by various students

such as bachelor, master and doctoral scholars, faculty and industry persons in the area of Artificial Intelligence, Machine Learning, and Deep Learning applications in Healthcare, Agriculture, Business, and Security etc. It will also cover research in core concepts of Computer Networks, Intelligent System design and deployment, Real time systems, WSN, Sensors and Sensor nodes, SDN, NFV etc. Each book chapter shall emphasize on specific subdomains of AI and Deep Learning. It will be useful for students, faculty and industry working on AI applications. AI is an emerging technology that shall be used almost all applications / technologies/ systems in one or other form. Thus, the conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.

# **EXPECTED OUTCOMES:**

The expected outcomes from the Conference are:

- A toolkit for implementation
- Learning and knowledge exchange among Conference participants through interdisciplinary discussions.
- A series of documented case studies, video interviews, information briefs and other materials for Artificial Intelligence.
- A Conference report, including lessons from the International Decade for Advancement and Application in the field of Artificial Intelligence.



# **BROCHURE/POSTER/LEAFLET/FLYER:**





# 3<sup>rd</sup> International Conference on Artificial Intelligence: **Advances and Applications-2022 (ICAIAA-2022)**

**April 23-24, 2022** 







### **WELCOME TO ICAIAA-2022**

The Conference on Artificial Intelligence: Advances and Applications-2022 is the third International Conference being organized with publication support of Springer. It is being jointly organized by Poornima College of Engineering, Jajour, and Soft Computing Research Society. The objective of the conference is to bring together researchers from academia, government agencies, research onego in ingreen in a value, and out computing resear la ductor, in expecte on the content of the computation of the computatio design and deployment. Real time systems, WSN, Sensors and Sensor nodes, SDN, NFV etc. It will be useful for students, faculty and industry working on Al applications. Al is an emerging technology that shall be used almost all applications / technologies/ systems in one or other form.

### **ICAIAA-2022 COMMITTEES**

#### PATRON

Ar. Rahul Singhi, Director, Poornima Group, Jaipur, India

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Ashish Kumar Tripathi, MNIT, Jaipur
Marcin Paprzycki, Polish Academy of Sciences, Poland

ORGANIZING CHAIRS Kusum Kumari Bharti, IIITDM, Jabalpur, India Harish Sharma, RTU Kota, India Pankaj Dhemla, Vice-Principal PCE, Jaipur, India

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Nilanjan Dey, JIS University, Kolkata

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#### SESSION MANAGEMENT COMMITTEE

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#### **CALL FOR PAPERS**

Prospective authors from academia as well as Industry are invited to submit their full papers in Main Conference ICAIAA-2022, which have not been yet submitted/published and that illustrate research, surveying works, and industrial applications in artificial intelligence domain describing significant innovation and advances in following broad areas, but not limited to

# Track-I Artificial Intelligence

- Agent-Based Systems Bioinformatics and Computational Biology Artificial Life

- Artificial Life
  Collective Intelligence
  Differential Evolution
  Evolutionary Scheduling
  Machine Learning
  Ant Colony Optimization
  Artificial Intelligence In Modeling And Simulation
  Artificial Inmune Systems
  Computer Vision And Speech Understanding

### Track-2 Intelligent Sensor, Devices & Applications

- Automatic Control
  Sensors in Automobile
  Fluzzy Systems For Robotics
  Intelligent Database Systems
  Sensor Modeling And Identification
  Molecular And Quantum Computing
  Robotics And Related Fields
  Wideh Intelligence Applications And Se
- Web Intelligence Applications And Search Intelligent System Architectures
- Intelligent System Architectures
  Health Care Applications
  Network Intelligence
  Routing Protocol in WSN
  Natural Language Processing
  CAD Design & Testing
  Computational Theories of Learning
  Intelligent Sensor
  Information Retrieval

### Oral Presentation

Oral Presentation
The author / presenter shall prepare 15 minutes presented an about the research paper contribution including Objective, Justification, Methodology, Results, and Conclusion as per template here. There will be 3-5 minutes query time. Presentation schedule will be die played well before time.

Important Dates

Last Date of Paper Submission: February 25, 2022 Acceptance Natification: March 33, 2022 Camera Ready Paper

Last Date of Registration: April 15, 2022

Last Date of Registration: April 15, 2022

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- Evolutionary Design
   Expert Systems
   Deep Learning
   Approximate Reasoning
   Natural Language Processing
   Brain-Machine Interfaces
   Data Minning
   Neural Network Theory and Architectures
   Human—Computer Interaction
   Nature Inspired Algorithm

- Mechatronics
  VANET
  Energy Optimization of Wireless Devices
  Agriculture Applications
  Disaster Management
  Variable Bio-Sensors
  Coverage Problem in WCN

- Coverage Problem in WSN
- Sensors for Medical Health Application Hybrid Intelligent Systems

- Hybrid Intelligent Systems
  Multi-Agent Systems
  Environmental/ Earth Sensing
  Pervasive Computing And Ambient Intelligence
  Synthesizing Controllers
  Industrial Monitoring
  Security and Privacy Data Mining
  Business intelligence
  Registration Fees
  Farty Bird Registration

#### Author Category Early Bird Registration dia Outside India 5000 INR/ 120 USD Regular Author (Existing SCRS Members) 4000 INR/ Not Applicable 50 USD Listener (Non-Author/Co- Author/ General Participants) 1500 INR 1000 INR

Last Date: 15 April 2022

PAPER SUBMISSION

All the papers should be prepared as per author guidelines. The manuscript written should be thoroughly checked for grammatical or typographical errors before submission. Authors should ensure that the similarity score nor than 15 % shall not be processed. All the review manuscripts should be submitted in PDF format without authors name and affiliations using Easy Chair Conference Management Systems written Springer Template in Word (A4) or in Latex. However the names of all authors should be registered on easy chair while submission. Maximum number of page allowed will be 08 (Eight).

Website: https://www.icaiaa22.scrs.in/

Paper submission Link: https://easychair.org/conferences/?conf = icaiaa22

Conference Venue: POORNIMA COLLEGE OF ENGINEERING, ISI-6 RIICO Institutional Area, Sitapura, JAIPUR – 302022 (Raj.), INDIA



# RESPONSE (SUBMISSION/ACCEPTANCE/PRESENTATION):

In ICAIAA-2022, total 300 papers received across the world consented and reviewed. 110 papers were accepted after a rigorous review procedure, making it very selective. 90 papers were registered. And out of which 70 papers were presented in two tracks.

	Track1	Track2	Total
Total No. of Papers Submitted	154	146	300
Total No. of Papers Accepted	68	42	110
Total No. of Papers Registered	53	37	90
Total No. of Papers Presented	38	32	70

# **PROGRAM OUTLINE:**

(23-24th April 2022)

# **Program Schedule**

Day - 23, April 2022

	Day – 23, April 2022	
Oį	pening Ceremony and Keynote Talk	13:00 -
		14:45
oc	Opening Ceremony	13:00 -
		14:00
K1	Data Generation using Modelling and Simulation For	14:00 -
	Machine Learning	14:45
	Speaker: Prashant Singh Rana, Thapar Institute of	
	Engg & Tech, Patiala, Punjab, India	
	TS01: Artificial Intelligence	16:00 -
		17:30
0238	Sri Raaghav N U, Aathikrishna S K, Anbumani T and Subb	ulakshmi B
	Online Proctoring System	
0677	Kaviyameena D, Kavitha D, Uma Maheswari B and Sujath	a R.
	Application of Machine Learning Models to Improve ti	
	Earnings Management Prediction	
2538	Deepika Vodnala, Shravya Jadhav, Konagari Vishnupriy	ya and Vemuri
	Rohit	
	Machine Learning-Based Tool to Classify Online Toxic Comm	ents
0486	Tarunim Sharma, Dr. Shalini Bhaskar, Dr. Aman Jatain	and Dr. Kavita
	Pabreja	
	Literature Review: A Comparative Study of Software De	efect Prediction
	Techniques	
7081	Prachi Rajarapollu, Aditya Borse, Megharaj Sonawa	ne, Hrishikesh
	Sonawane and Ashish Mali	
	System Development to Analyze Recruitment Process and E	ligibility Criteria
	Using Machine Learning Algorithms	
7373	Laxmi Rajput and Sanjay Kumar	
	Spherical fuzzy parameterized soft set based multi-criteria	decision-making
	method	
7603	S. Vijayashaarathi and S. Nithya Kalyani	
	Enhanced Error Correction Algorithm for Streaming High	Definition Video
	over Multihomed Wireless Networks (MWN)	
6813	Payal Bansal and Pallavi Sapkale	//
	Sentimental Segregation for Social Media Using Ley Con	ir rugy
TS02:	Intelligent Sensor, Devices & Application	Bunuph.
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	DE	BE ME Philipped of Engine Of Institutional A
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5832	Himanshi Chaudhary, Sakshi Gujral and Ankita Verma
	Swarm Intelligence Based Drones: Opportunities & Future Aspects
9073	Disha Sharma, Dharmendra Vaishnav, Divyanshu Joshi, Gopal Krishan
	Sharma and Dharmendra Trivedi
	A REVIEW: Development of smart agriculture using IOT, agriculture robots
	and wireless sensory network
7191	Shivoy Pandey, Samrat Mehta, Sachin Kumar Sahu and Ankit Sharma
	Broadband SIW Cavity Backed High Gain Slot Antenna
4414	Sandeep Pratap Narayan Mishra, Sarwang Patel, Vidya Sagar Singh and
	Ruchi Agrawal
	Frequency reconfigurable C Shape substrate integrated waveguide antenna
	for cognitive radio application
6054	Rugved Sanjay Chavan, Gaurav Gaurav and Nitesh Pradhan
	Advance Plant Health Monitoring and Forecasting System Using
	Edge-Fog-Cloud Computing and LSTM Networks
8422	Sajid Ansari, Md Imran, Shahab Saquib Sohail and Piyush Kumar Gupta
	Collaborative Filtering based Top-n Ranked Recommender System: An
	Implementation and Comparison Methodology
8889	Venelin Todorov and Ivan Dimov
	An Optimal Monte Carlo Approach related to Multidimensional Artificial
	Intelligence
8817	Takalani Orifha Mufamadi and Takalani Orifha Mufamadi
	Crop Recommendation System using Machine Learning Algorithms and Soil
	Attributes Data
	TS03: Computer Vision 16:00 -
	17:30
5860	Dipika Malhotra and Satinder Kaur
	Recognition Of CAPTCHA Characters Using Machine Learning Algorithms
5053	P Venkata Lavanya, C Venkata Narasimhulu and K Satya Prasad
	Image Denoising using DT-CWT combined with ANN and Grey wolf
	Optimization Algorithm
3289	Rohit Sartandel, Mahendra Choudhary, Anish Arun and Leena Ladge
	Crop Recommendation System and Plant Disease Classification using
	Machine Learning for Precision Agriculture
4909	Jagdish Kumar and Apash Roy
	Handwritten Text Recognition for Regional Languages of Indian
	Subcontinent
4258	Olimpia Borgohain, Meghna Dasgupta, Pramod Kumar, Samiur Rahman
	and Saurabh Sutradhar
	Recognition of Handwritten Assamese Characters
	7

3155	Cynthia Sherin B and Kayalvizhi Jayavel		
	Effective Vehicle Classification and Re-Identification on Stanford Co		
	Dataset using Convolutional Neural Networks		
976	Kedar Kharde, Siddhesh Bhere, Siddhesh Gadge, Rohit Jadhav and In		
	Dokare		
	Recognition of Indian Sign Language Characters using Convolution		
	Neural Network		
	TS 04: Big Data Analytics 16:00		
	17:30		
453	Sushma Iliger and Mario Pinto		
	Comparative Study of Rainfall Prediction Modeling Techniques: Case Stu		
	on Karapur, India		
5337	Sangeetha S, Sangeetha B, Raja Kumar I, Shevannth R, Krishna Prasa		
	S and Mohammed Rafi M		
	Fake Review Detection Using Deep Learning		
129	Nowshith Parveen N, Kavitha D, Uma Maheswari B and Sujatha R		
	Assessment of firm's performance by employing text mining techniques		
1668	Parimal Kumar, Ayesha Faroog and Rishikesha T. Krishnan		
	An Empirical Study to Identify Critical Factors based on which Investors		
	make decision for funding in the context of Indian Startup Ecosystem		
2819	Sujatha R, Uma Maheswari B, Kavitha D and Subash A R		
	Predictive Model with Twitter data for predicting the Price Volatility of		
	Cryptocurrencies using Machine Learning Algorithms		
430	Bhavana Bhagat and Dr. Shital Dande		
	A Literature Review on Sentiment Analysis using Machine Learning		
	Education Domain		
7858	Anchal Pokharana, Krishan Kant Sharma and Samiksha Sharma		
	The Analytics of Big Data & Hadoop Architecture: A Literature Review		
7977	Paola Santana-Morales, Alberto F. Merchán, Alba Márquez-Rodrígu		
	and Antonio I. Tallón-Ballesteros		
	Feature ranking for feature sorting and feature selection: FR4(FS)^2		
	TS 05: Emerging Technology 16:09		
	The second secon		
2934	Shahana Chandrasekaran, Vignesh S and Susar ina N FOREST FIRE ALERT SYSTEM  Antara Sengupta, Sreeya Ghosh and Pabitra P Analysis of Changes Occurring in Control of the Collision of Through the Cellular Automata Transition Rules  Anjali Bobra and Dr. Bhavesh Patel Energy Optimization In Data Centers F		
	FOREST FIRE ALERT SYSTEM		
5030	Antara Sengupta, Sreeya Ghosh and Pabitra Panahes		
	Analysis of Changes Occurring in Control due to the Control		
	Through the Cellular Automata Transition Rules		
5244	Anjali Bobra and Dr. Bhavesh Patel		
	Energy Optimization In Data Centers Free Office (CO In Int.)		

8585	Tejas Dhopavkar, Omkar Ghagare, Onkar Bhatlawande and Sujata
	Khedkar
	Emotional AI Enabled Interview Aid
7701	Saurav Telge, Ranjan Bala Jain, Ryan Rodricks, Adarsh Singh and
	Mrunmayee Waingankar
	Tumordc.Al: A Comprehensive Deep Learning-based Brain Tumor
	Detection and Classification system
5731	S M Annapurna, Sunil Rajora, Yoginder Kumar, Sai Krishna V and
	Navjot Kumar
	FTIR based characterization and classification of various Indian
	monofloral honey samples
2368	Aastha Budhiraja and Kamlesh Sharma
	Decisions Prediction Techniques using Language Processing and
	Learning Algorithms
6276	Dr.N N.Senthamarai
	Optimization of Resource Management for workload allocation in
	Cloud Computing
1341	Kirti Pandey and C K Jha
	Comparison of Different Swarm Based Nature Inspired Algorithm for
	solution of Optimization Problem
8024	Mpho Mendy Nefale and Ritesh Ajoodha
	Using numerous biographical and enrolling observations to predict
	student performance
TS 07: Intelligent Sensor, De	evices & Application 11:00 –
	12:30
1450	Chaladi S Ganga Bhavani, Dr N Bhanu Prasad and Dr. D Ravi
	Kishore
	A Novel Interleaved High-Voltage Gain Boost Converter for Solar PV
9514	Jahanvi Singh, Pranita Ranade and Tanmoy Goswami
	Augmented Reality based smart Mobile Application to make ASD
	children accustomed to daily challenges
5588	Manipriya Sankaranarayanan, Madhav Aggarwal and Mala C
	Semi-Automatic Vehicle Detection System for Road Traffic
	Management
8242	Akanksha Dawande, Uday Chourasia and Priyanka Dixit
	Music Generation And Composition Using Machine Learning
6184	Iosun Stephen Shima, Mustapha Lawal Abdulrahman and
	Abdulsalam Yau Gital
	A Review on Deep Learning Algorithms for Real Time Detection of
	Multiple Vehicle Based Classes: Challenges and Open Opportunities
	montple remote busine classes entirenges and open opportunities



5815	Emanuele Lindo Secco
3013	A Surveillance Mobile Robot based on Low-Cost Embedded Computers
6671	Mu'Azu Aminu Aliyu, Souley Boukari, Abdullahi Gamsha Madaki
0071	and Mustapha Lawal Abdurrahman
	TOWARDS A BETTER MODEL FOR THE SEMATIC SEGMENTATION OF
	REMOTE SENSING IMAGERY
1179	Manikandan R
	Evolutionary Algorithms for Marine dynamical systems:Towards
	sustainable renewable energy harvesting from Offshore environment
TS 08: Computer Vision	11:00 -
	12:30
7408	Sajan Kar
	A Deep Learning CNN based approach to the Problem of
	Crypto-Currency Prediction.
8697	Deepika Vodnala, Konkathi Shreya, Maduru Sandhya and Cholleti
	Varsha
	Skin Cancer Detection Using Convolutional Neural Networks and
	InceptionResNetV2
3946	Revathi S A, Dr. B Sathish Babu and Dr. Subramanya K N
	Deep Learning Approach for Segmenting and Classifying Knee
	Osteoarthritis using MR Images
5054	Salma Itagi, Likhith Sr and Salma Itagi
	Automated detection of Multi Class Lung diseases using Deep Learning
	with the help of X-ray Chest Images
2567	Asha J Vithayathil and A Sreekumar
	Pixel Based Image Encryption Approaches: A Review
8249	Nidhi Panchal, Garima Iyer, Pranav Pandya and Shruti Dodani
	Tumor Visualization Model for Determining Pathway in Radiotherapy
5190	A.H.M. Zadidul Karim, Md. Badeuzzamal Sarker, Md. Rafiqul Alam
	Rejon, Md. Saimun Islam, Rafatul Alam Fahima and Md. Sazal Miah
	Classification of Electrocardiogram Using Color Images with Pixel
	Method by Deep CNN
6090	Tasneem Ahmed, Nashra Javed, Mohammad Faisal and Halima
	Sadia
	A Framework for Smart Agriculture System to Monitor the Crop Stress
	and Drought Stress Using Sentinel-2 Satellite Image
TS 09: Emerging Technology	11:00 – 12:30
7918	Utkarsh Pandey, Anshumaan Pathak, Surajit Mondal and Kaushik
7916	

	SIMULATION OF DENSITY BASED TRAFFIC CONTROL	SYSTEM USING	
	PROTEUS 7.1 PROFESSIONAL		
8726	Sunil Rajora, S M Annapurna, Yoginder Kumar, Sai	Krishna V and	
	Navjot Kumar	ı	
	Development of Thermocycler for On-site Detec	tion of Meat	
	Authenticity and Microbial contamination		
7215	Maheen Ashraf, Syeda Fatima, Misbah Fatma, Sidr		
	Umme Rooman, Shahab Saquib Sohail and Ahmad S		
	Private browsing does not affect Google perso	nalization: An	
	experimental evaluation		
8153	Jey Shree Lakshmi J, Subalakshmi J, Joyslin Janet J, Vi	gneshwaran B	
	and Sivapalanirajan M	ı	
	Deep learning-based condition monitoring of insulat	or in overhead	
	power distribution lines using Enhanced Cat Swarm Op		
9856	Abubakar Saddiq Mohammed, Isiaka Olukayode	Mosudi and	
	Suleiman Zubair	ı	
	Performance Evaluation of Secured Containerization	tion for Edge	
	Computing in 5G Communication Network		
6523	Loong Chuen Lee, Nur Fatin Syuhada Binti Roslee an		
	Evaluating Morphometric Feature Variability of Handwi	ritten Numerals	
	among Malaysian Malays using Self-Organizing Maps		
6216	Chiulan Yeh and Fu-Yuan Li	ı	
	A Study of Computer Drawing Used in Menswear Design	1	
Keynote Talk, Award Annou	incements and Valedictory Function	13:00 -	
		14:15	
K2	Developing Al Models for Solving Real-World	13:00 -	
	Problems	1005 -dele	
	Speaker: Mohammad Shorif	eh Bungh.D.	E
	Jahangirnagar University, Bangladesh	DESBE ME	na
Cc	Problems Speaker: Mohammad Shorif Jahangirnagar University, Bangladesh Award Announcements and Valedic Pranction	Difector Engineer dilage of Engineer Are CO Institutional Are Spura, JAIPUR	a
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## **INAUGURAL SESSION:**

## CONFERENCE REPORT RTU TEQIP-III Sponsored

3rd International Conference on

# Artificial Intelligence: Advances and Applications ICAIAA-2022-(23-24 April 2022) Saturday, April 23, 2022

Venue: Online ICAIAA Conference Hall (Online)

Time: 12:30 pm to 02.00 pm

S. No	Activity	Duration	Time
1.	Reporting and Registration of Delegates -Online Portal & Corresponding Track links	30 Min	12.30 pm-01.00 pm
2.	Ganesh Vandana	04 Min	01:00 pm-01:04 pm
3.	Welcome of Dignitaries by the anchors  A. Prof. Dheeraj Sanghi, Vice Chancellor, JKLU (Chief Guest)  B. Dr. Marcin Paprzycki, Polish Academy of Sciences, Warsaw, Poland (Guest of honour)  C. Dr. Jagdish Chandra Bansal, General Secretary, SCRS, India  D. Dr. Mahesh Bundele, Director, PCE & General Chair ICAIAA 2022  E. Dr. Ashish Kumar Tripathi, MNIT, Jaipur & General Chair ICAIAA 2022  F. Dr. Harish Sharma, Organizing Chair ICAIAA 2022  G. Deepak Bhatia, Publicity Chair ICAIAA 2022  H. Ar. Rahul Singhi, Director, Poornima Group  I. Dr. Garima Mathur, General Chair ICAIAA 2022	01 Min	01:04 pm-01:05 pm
4.	A. Felicitation of Chief Guest Prof. Dheeraj Sanghi, Vice Chancellor, JKLU by Ar. Rahul Singhi, Director, Poornima Group B. Felicitation of Guest of Honour Dr. Marcin Paprzycki, Polish Academy of Sciences, Warsaw, Poland by Dr. Mahesh Bundele, Director, PCE	08 Min	01:05 pm-01:13 pm
5.	About the Conference by <b>Dr. Ashish Kumar Tripathi,</b> MNIT, Jaipur & General Chair ICAIAA 2022	05 Min	01.13 pm-01.18 pm
6.	Release of Conference Souvenir & Proceeding - Online by Dignitaries and Track Chairs	02 Min	01.18 pm-01.20 pm
7.	Address by General Chair ICAIAA 2022 <b>Dr. Mahesh Bundele,</b> Director, PCE & General Chair ICAIAA 2022	05 Min	01.20 pm-01.25 pm
8.	Introduction & Address by Ar. Rahul Singhi, Director, Poornima Group.	05 Min	01.25 pm-01.30 pm
9.	Introduction & Address by <b>Dr. Jagdish Chandra Bansal,</b> General Secretary, SCRS, India	05 Min	01.30 pm-01.35 pm
10.	Introduction of Guest of Honour Dr. Marcin Paprzycki, Polish Academy of Sciences, Warsaw, Poland Keynote Address	10 Min	01.35 pm-01.45 pm
11.	Introduction & Address by Chief Guest Prof. Dheeraj Sanghi, Vice Chancellor, JKLU	10 Min	01.45 pm-01.55 pm
12.	Vote of Thanks by <b>Dr. Garima Mathur</b> , General Chair ICAIAA 2022	03 Min	01.55 pm-01.58 pm
13.	Group Photograph -Virtual	02 Min	01.58 pm-02.00 pm

**DAY 1 Saturday Inaugural Session** 

## **KEYNOTE SPEAKERS:**

- Prashant Singh Rana, Thapar Institute of Engg & Tech, Patiala, Punjab, India
- Mohammad Shorif Uddin, Jahangirnagar University, Bangladesh

## **GLIMPSES OF PRESENTATIONS:**





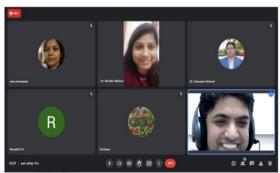




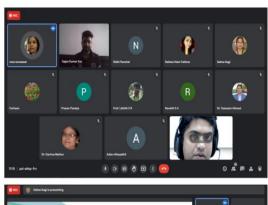








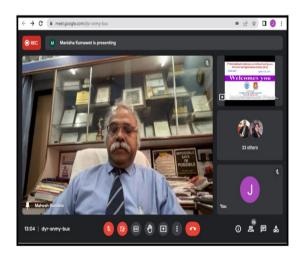


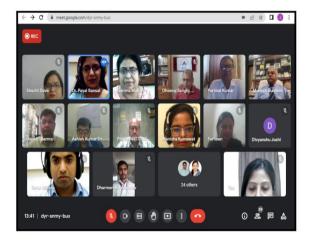














## **VALEDICTORY SESSION:**

## CONFERENCE REPORT RTU TEQIP-III Sponsored

3rd International Conference on

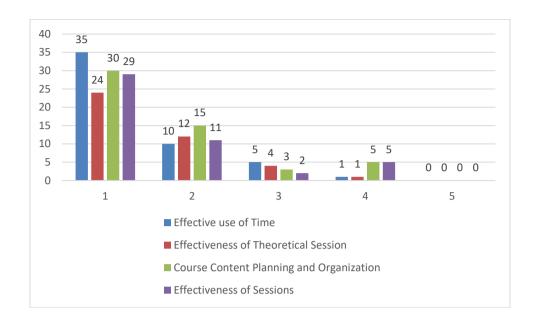
## Artificial Intelligence: Advances and Applications ICAIAA-2022-(23-24 April 2022) Sunday- 24th April 2022 DAY 2 Valedictory Session

Venue: Online ICAIAA Conference Hall (Google meet) Time: 01:45 pm to 02:15 pm

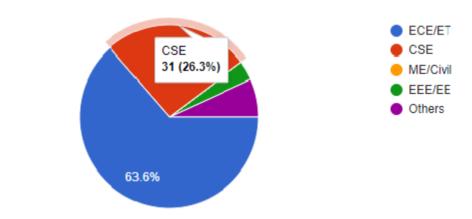
S. No	Activity	Duratio n	Time
1.	Reporting of Participants	15 Min	01:30 pm – 01:45 pm
2.	<ul> <li>Arrival of Dignitaries</li> <li>A. Prof. Mohammad Shorif Uddin, Jahangirnagar University, Bangladesh – Chief Guest</li> <li>B. Dr. Jagdish Chandra Bansal, General Secretary, Soft Computing Research Society</li> <li>C. Dr. Mahesh Bundele, Director, PCE, General Chair ICAIAA 2022</li> <li>D. Dr. Ashish Kumar Tripathi, MNIT, Jaipur, General Chair ICAIAA 2022</li> <li>E. Dr. Harish Sharma, Organizing Chair ICAIAA 2022</li> <li>F. Dr. Narayan Lal Jain, Vice Principal, PCE, Jaipur</li> <li>G. Dr. Garima Mathur, General Chair ICAIAA 2022</li> </ul>	02 Min	01:45 pm – 01:47 pm
3	Felicitation of Chief Guest Dr. Jagdish Chandra Bansal, General Secretary, Soft Computing Research Society, by Dr. Mahesh Bundele, Director, PCE, General Chair ICAIAA 2022	01 Min	01:47 pm – 01:48 pm
4	Report on Conference by <b>Dr. Garima Mathur</b> , General Chair ICAIAA 2022	02 Min	01:48 pm – 01:50 pm
5.	Participants Feedback	05 Min	01:50 pm – 01:55 pm
6.	E-Certificates Distribution at the hands of <b>Chief Guest</b>	02 Min	01:55 pm – 01:57 pm
7.	Address by <b>Dr. Mahesh Bundele,</b> Director, PCE, General Chair ICAIAA 2022	05 Min	01:57 pm – 02:02 pm
8.	Address by <b>Chief Guest Mohammad Shorif Uddin,</b> Jahangirnagar University, Bangladesh	10 <b>M</b> in	02:02 pm - 02:12 pm
9.	Vote of Thanks by <b>Dr. Shuchi Dave</b> , PCE, Jaipur	02 Min	02:12 pm – 02:14 pm

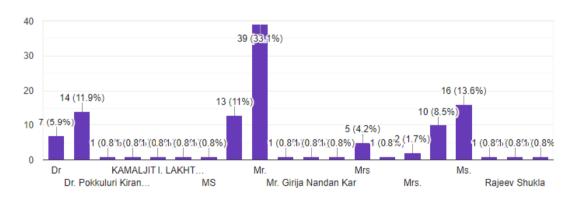
## **FEEDBACK ANALYSIS:**

	Effective use of Time	Effectiveness of Theoretical Session	Course Content Planning and Organization	Effectiveness of Sessions
<b>Strongly Agree</b>	35	24	30	29
Agree	10	12	15	11 adele
Neutral	5	4	300	esh Bulloph.D.
Disagree	1	1	Dr. Mah	B.E.
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## **SWOT ANALYSIS:**









Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

## CONFERENCEREPORT

- **TITLEANDDURATION:**6th edition of IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE-2021) held during 01-03 December, 2021.
- **SPONSORS:**ICRAIE 2021 was technically sponsored by IEEE Poland Section Chapter, IEEE Computational Intelligence Society (CIS) Chapter.
- **SUPPORTERS:** Supported by IEEE Rajasthan Subsection.
- ORGANIZING PARTNERS:ICRAIE-2021, was jointly organized by The Faculty of Computer and Mathematical Sciences, University Teknologi MARA, Kedah Branch, Malaysia, IEEE IE/IA Malaysia, and Poornima College of Engineering, Jaipur, Rajasthan, India.
- **PUBLISHER(S):**IEEE
- ISBN/PARTNO./INDEXINGAGENCY:IEEE Xplore Digital Library.
- THEMES / TRACKS:
- Track 1: Computer Science & Engineering / Information Technology.
- Track 2: Electronics & Communication Engineering.
- Track 3: Electrical Engineering.

### • OBJECTIVES:

The Faculty of Computer and Mathematical Sciences, University Teknologi MARA, Kedah Branch, Malaysia, IEEE IE/IA Malaysia Joint Chapter with the collaboration of Poornima College of Engineering, Jaipur, Rajasthan, India team has put in an effort or making the Sixth International Conference on Recent Advances and Innovations in Lagraceing (1922) in Virtual Mode with the theme 'Synergizing Efforts, Expandy Holland's a reality As per the objective, it could bring together Academicians, Researchers, ## **EXPECTEDOUTCOMES:**

ICRAIE 2021 was technically sponsored by the IEEE Poland Section Chapter, IEEE Computational Intelligence Society (CIS) Chapter, and the co-organizers from the Faculty of Computer and Mathematical Sciences, UiTM Perlis Branch and School of Electrical Engineering, UiTM Pulau Pinang Branch. A target of 100 papers for the three tracks Computer Science & Information Technology, Electronics & Communication Engineering, and Electrical Engineering.

## **LEARNING OUTCOMES:**

**CO1:** To appropriate agreement to promote and encourage the youth to select for Engineering education.

**CO2:** To produce quality Engineers for the bright future of our country.

**CO3:** Opportunity to learn, Discuss & interact with intellectuals all over the world.

## **MAPPINGSWITHPOANDPSO**

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	1	1	-	3	1	-	1	-	-	-	-	1	1
CO2	1	-	-	1	-	1	1	-	3	-	-	-	-	-	1
CO3									3	2		1			



## **BROCHURE/POSTER/LEAFLET/FLYER:**

## RECENT ADVANCES AND INNOVATIONS IN ENGINEERING

(ICRAIE - 2021)
IEEECONFERENCERECORD#52900

## **Technically Sponsored by:**





## **Co-Organizer:**



Cawangan Perlis Kampus Arau

Faculty of Computer and Mathematical Sciences, UiTM Perlis Branch



## Organized by:











## RESPONSE(SUBMISSION/ACCEPTANCE/ PRESENTATION):

A total of 160 reviewers across the world consented to and reviewed the papers. 97 papers were accepted after a rigorous review procedure, making it very selective. 91 registered and presented papers were distributed in a total of 29 Oral Sessions in virtual mode during December 1-3, 2021. A total of 200 doctoral students and professionals attended all the sessions including registered participants and local attendees.

## **SUMMARY / CATEGORIZATION OF PARTICIPANTS:**

The Faculty of Computer and Mathematical Sciences, University Teknologi MARA, Kedah Branch, Malaysia, IEEE IE/IA Malaysia Joint Chapter with the collaboration of Poornima College of Engineering, Jaipur, Rajasthan, India team has put in an effort for making the Sixth International Conference on Recent Advances and Innovations in Engineering (ICRAIE 2021) in Virtual Mode with the theme 'Synergizing Efforts, Expanding Horizons' a reality. As per the objective, it could bring together Academicians, Researchers, and Industry Experts in the areas of Computer Science Engineering/Information Technology, Electronics & Communication Engineering, and Electrical Engineering for the dissemination of original research, new innovations, and ideas at an international platform.

ICRAIE 2021 was technically sponsored by the IEEE Poland Section Chapter, IEEE Computational Intelligence Society (CIS) Chapter, and the co-organizers from the Faculty of Computer and Mathematical Sciences, UiTM Perlis Branch and School of Electrical Engineering, UiTM Pulau Pinang Branch.

A target of 100 papers for the three tracks Computer Science & Information Technology, Electronics & Communication Engineering, and Electrical Engineering. EDAS conference management system has been used. The enthusiastic response was received all around – 298 full manuscripts were uploaded on EDAs from 8 countries. Total of 160 reviewers across the world consented to and reviewed the papers. 97 papers were accepted after a rigorous review procedure, making it very selective. 91 registered and presented papers were distributed in a total of 29 Oral Sessions in virtual mode during December 1-3, 2021. A totalof 200 doctoral students and professionals attended all the sessions including registered participants and local attendees. International participants from various countries - India, Sri Lanka, Indonesia, Vietnam, Bangladesh, Algeria& United States of America have also presented their research work.

Following is the analysis of Papers submitted, accepted, and presented in IEEE ICRAIE-2021.



### PAPER STATISTICS - ALL TRACKS

	Track 1 CSE/IT	Track 2 ECE	Track 3 EE	Total
Total No. of Papers Submitted	183	48	67	298
Total No. of Papers Accepted	61	12	24	97
Total No. of Papers Registered	57	12	24	93
Total No. of Papers Presented	57	12	22	91

#### ICRAIE 2021 Parallel Session Links

No	Room	Link
1	1A	https://meet.google.com/khz-gsvo-iwb
2	1B	https://meet.google.com/ddj-vmev-vde
3	1C	https://meet.google.com/tqo-xuyy-apn
4	1D	https://meet.google.com/scw-jwfs-kgm
5	1E	https://meet.google.com/bxy-fktp-dsd
6	2A	https://meet.google.com/woo-wfcc-gmu
7	2B	https://meet.google.com/pqv-riwt-uvz
8	2C	https://meet.google.com/him-ywcw-iwp
9	2D	https://meet.google.com/dgc-zxgq-wxg
10	2E	https://meet.google.com/jzm-sjwh-kmc
11	3A	https://meet.google.com/rzp-grzz-usm
12	3B	https://meet.google.com/kmb-oenv-rqx
13	3C	https://meet.google.com/zgg-ixqw-euw
14	4A	https://meet.google.com/vut-jppu-kbm
15	4B	https://meet.google.com/dni-xvss-yyi
16	4C	https://meet.google.com/eag-ttqc-qyw
17	4D	https://meet.google.com/vnu-vdgh-bmd
18	5A	https://meet.google.com/rbh-egpd-fbe
19	5B	https://meet.google.com/tbw-ciqq-yux
20	5C	https://meet.google.com/pks-sfua-nic
21	5D	https://meet.google.com/dya-jsvh-bpe
22	5E	https://meet.google.com/xgm-ciix-ypw
23	6A	https://meet.google.com/izb-kaoo-ecd
24	6B	https://meet.google.com/ysm-fejh-omi
25	6C	https://meet.google.com/jei-dmde-whz
26	6D	https://meet.google.com/ska-wwdd-ydx
27	6E	https://meet.google.com/izp-vytg-mhq

Prof. Dr. Mohamad Abdullah Hemdi, the Rector of UiTM Kedah expressed his greatest gratitude to everyone in the Official Opening Ceremony of the 6th International Conference on Recent Advances and Innovations in Engineering (ICRAIE) 2021.

Dr. Mahesh Bundele welcome all VIPs and participant to the conference and is glad about the combined efforts by Poornima College of Engineering, Jaipur along with University Teknologi MARA (UiTM) Kedah Malaysia, IEEE IE/IA Joint Chapter as financial Co-Sponsor and IEEE Malaysia Section, IEEE Poland Section & IEEE CIS Poland Chapter as Technical Sponsors are jointly organizing 6th IEEE International Conference (Virtual Mode) on Recent Advances and Innovations in Engineering-ICRAIE 2021 during 1-3 December, 2021.

An opening talk for ICRAIE2021 was delivered by Prof. Zuhaina Zakaria from IEEE Malaysia Section and was formerly the chair of the IEEE Malaysia Section from 2015 -2016. She was also the founder for IEEE Malaysia Section-Women in Ero Agents ABit y prop which was formed in July 2007.

Plenary talk 2 is conveyed by Dr. Azlan Mohd Zain, a Professor at the Conveyed by Dr. Azlan Mohd Zain, a Professor at the Conveyed by Dr. Azlan Mohd Zain, a Professor at the Conveyed by Dr. Azlan Mohd Zain, a Professor at the Conveyed by Dr. Azlan Mohd Zain, a Professor at the Conveyed by Dr. Azlan Mohd Zain, a Professor at the Conveyed by Dr. Azlan Mohd Zain, a Professor at the Conveyed by Dr. Azlan Mohd Zain, a Professor at the Conveyed by Dr. Azlan Mohd Zain, a Professor at the Conveyed by Dr. Azlan Obtained a Master of Science (Productivity and Quality Improvement) from University Kebangsaan

Malaysia (UKM) and received Ph.D. in Computer Science from UTM in 2010. Currently, he is a Director of the UTM Big Data Research Centre.

After the conference, full papers were submitted to the IEEE Xplore Digital Library for publishing and indexing. Moreover, the Proceedings and Communication Papers of the ICRAIE-2021 Conference (in their final version) were posted at the IEEE Explore. It should be stressed that only papers presented at the conference were published in either form (the ICRAIE conference series strictly adheres to the "IEEE No-show Policy").

### **PROGRAMOUTLINE:**

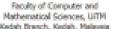


Dr. Mahesh Bundele Director Director Director Peornima College of Engineering Peornima College of Engineering ISI-8. Stapura, JAIPUR

#### 6th INTERNATIONAL CONFERENCE AND WORKSHOPS ON RECENT ADVANCES AND INNOVATIONS IN ENGINEERING

(IEEE Conference Record #52900 )



















Conference Schedule									
	Thursday, Day 2: 2nd December 2021								
09:00 am - 10:00 am		Pi	rallel Session	3					
09:00 am = 10:00 am		Track I (	CS/IT) & Track	II (ECE)					
	Room 3A	Room 3B	Room 3C	Room 3D	Room 3E				
		I	lenary Talk 4	ı					
10:00 am - 10:45 am	Speaker :	Artificial Intellige for Innovation Pro Dr. Afnizanfaizal Synapse Innovatio	duct Developmen Abdullah						
10:45 am - 11:00 am			Refreshment						
11:00 am — 11:30 am	Appreciation S Dr Vishwanath S Chairperson, FII Dr. Mahesh Bun Principal & Dire Ar Rahul Singhi Director, Poorni Officiating Spa Prof. Dr. Mohan	eech nel Elias E 2021, UiTM Kedi Speech Sinha EEE dele ctor, Poornima Co	dege of Engineer incering, Jaipur, di	h, Malaysia ing, Jaipur, India					
		Keyno	te Address Se	ssion I					
11:30 am - 12:30 pm	Title : Digital Transformation: The Emergence of Digital Intelligence Speaker : Prof. Ts. Dr. Haryani Haron Dean, Faculty of Computer and Mathematical Sciences, UTM Shah Alam, Malaysia								
12:30 pm - 2:00 pm			Lunch Break						



#### 6th International Conference and Workshops on Recent advances and Innovations in Engineering



















02:00 pm - 03:00 pm		P	arallel Session	4					
		Track II	(ECE) & Track	III (EE)					
	Room 4A	Room 4B	Room 4C	Room 4D	Room 4E				
		Keyno	te Address Ses	sion II					
03:30 pm – 04:00 pm		Introduction to R Assoc. Prof. Dr. N Warsaw Universit	faria Ganzha	_					
04:00 pm – 05:00 pm		Parallel Session 5							
	Track III (EE)								
	Room 5A	Room 5B	Room 5C	Room 5D	Room 5E				
5:00 pm			End of 2 <sup>nd</sup> Day	7					
	c	onference S	Schedule						
	Friday,	Day 3: 3rd D	ecember, 20	21					
09:00 am - 10:00 am		P	arallel Session	6					
			Track 1 (CS/IT)						
	Room 6A	Room 6B	Room 6C	Room 6D	Room 6E				
10:00 am - 10:15 am			Refreshment						
		Keynot	e Address Ses	sion III					
10:15 am - 11:15 am	Title : Data Science Trends Speaker : Mohammad Shazri Bin Shahrir Principal Data Scientist, Vettons Sdn. Bhd.								
	I	ward Announ	cement & Clo	sing Ceremon	ıy				
11:15 am - 11:30 am	Guest of Honour Prof. Dr. Nooritawati Md Tahir IEEE Industrial Electronic / Industry Applications Malaysia Joint Chapter								
11:30 am			End of Event						
	l								

Dr. Mahesh Bundele
BE. ME. Ph.D.

Director
BE. ME. Ph.D.

Poornima College of Engineering
Relico Institutional Area
Shapura, JAIPUR

## **KEYNOTE SPEAKERS:**

## ICRAIE 2021 PLENARY & KEYNOTE SPEAKER



12

• **Dr. Haryani Haron:** Dean, Faculty of Computer and Mathematical Sciences, UiTM (Topic: Digital Transformation: The Emergence of Digital Intelligence)



- Assoc. Prof. Dr. Maria Ganzha: Warsaw University of Technology (Warsaw, Poland)(Topic: Introduction to Reinforcement Learning)
  - Mohammad Shazri Bin Shahrir: Principal Data Scientist, Vettons (Topic : Data Science Trends)
  - **Dr. Marcin Papryzski**: Warsaw Management University(Topic: Data Science Trends)





### PLENARY TALK SPEAKERS:

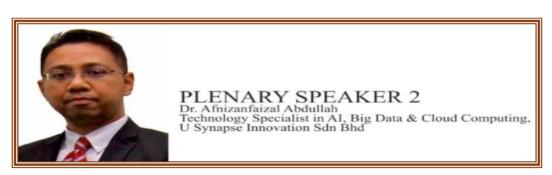
• **Professor Dr. Zuhaina Zakaria:** IEEE Power and Energy Society, Malaysia

(Topic: Big Data and AI for Smarter Electrical Power Systems)

• **Professor Dr. Azlan Mohd Zain:**Director, UTM Big Data Centre, University Teknologi Malaysia (Topic: Big Data Visualisation - Challenges and Tools )

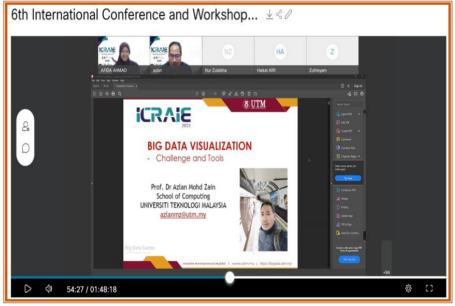


- **Dr. Wieslaw Pawlowski:**Department of Mathematics, Physics, and Informatics, University of Gdansk (Topic: Semantic Interoperability for IoT)
- **Dr. Afnizanfaizal Abdullah:** Technology Specialist in AI, Big Data & Cloud Computing, Synapse Innovation Sdn. Bhd.(Topic: Artificial Intelligence and Data Science for Innovation Product Development)



## **GLIMPSESOFPRESENTATIONS**

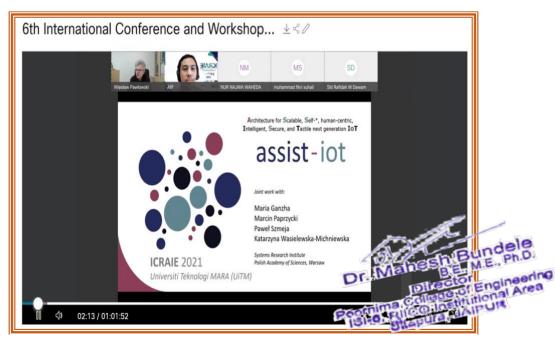
















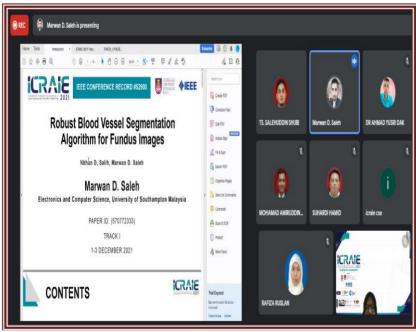




















#### **Group Photograph**



### **VALEDICTORYSESSION:**



Lastly the Conference came to an end with a Valedictory Function. Mr. Singhi opening speech by thanking and congratulating the organizers by bringing together all delegations and participants from all over the world. He is delighted upon collaboration between Poornima College of Engineering, Jaipur along with University Teknologi Mara (UiTM), Kedah, Malaysia, IEEE IE/IA Joint Chapter as financial Co-Sponsor and IEEE Malaysia Section, IEEE Poland Section & IEEE CIS Poland Chapter as Technical Sponsors are jointly organizing the 6th IEEE International Conference on Recent Advances and Innovations in Engineering from December 1 to 3, 2021 in virtual mode. He expressed his hope for these three days of conferences will provide a common platform for everyone to share their knowledge and experience. Again, in the closing speech, he congratulates the organizers for choosing an appropriate theme at an appropriate time and meticulcusty planning all sessions to achieve the objectives of this conference. Selve experience and their families who are affected by the pandemic

## 6th INTERNATIONAL CONFERENCE AND WORKSHOPS ON RECENT ADVANCES AND INNOVATIONS IN ENGINEERING

SYNERGISING EFFORTS, EXPANDING HORIZONS

(IEEE Conference Record #52900)









Faculty of Computer and Mathematical Sciences, UiTM Kedah Branch, Kedah, Malaysia











Poornima College of Engineering Jaipur Rajasthan, India

## LISTOFATTEN **DEES**

NO.	PAPERID	AUTHORS	PAPERTITLE	ATTENDEE
1	1570725489	Ahmad Yusri Dak, Rafiza Ruslan, ShamsulJamelElis Universiti Teknologi MARA, Perlis Branch,Malaysia	Jamming Classification Algorithms in Mobile Ad-HocNetwork	Ahmad YusriDak
2	1570737110	Mohd Fakhri Mat Saad, Ari WibisonoListyo Nugro, Rajermani Thinakaran,MohammadBaije d INTIInternationalUniversity,Malays ia	A Review of Artificial Intelligence Based Platform in HumanResource RecruitmentProcess	Mohd FakhriMatSaad
3	1570740184	Haikal Afifi Ahmad Shaberi, Ahmad AsriAbd Samat, Abdullah Nasif Afifi BinAbdullah, Saodah Omar, Abdul MalekSaidina Omar  Universiti Teknologi MARA,	Verilog HDL Implementation of Single-Phase Inverter forUninterruptiblePower Supply(UPS)	Haikin Air Mesh Bunde Dr. Mariesh Brander Director College of Engine College of Internal

		PenangBranch,Malaysia		
4	1570740190	Muhammad Naqiuddin Mansor, <i>AhmadAsriAbdSamat</i> ,AimiIdz wanTajudin,	Self Tuning of PI Controller for Speed Control of DC MotorbyUsingFuzzy Logic	AhmadAsriAbdSamat
		Saiful Firdaus Abd Shukor, KamarualazharDaud Universiti Teknologi		
		MARA, PenangBranch,Malaysia		
		BrynaYiiNgieng, NabihahAhmad	Development of Comment A 1 111	
5	1570740554	Universiti Tun Hussein Onn Malaysia,Malaysia	Development of Compact Automated Home SystemControllerUsingASIC DesignFlow	BrynaYiiNgieng
6	1570741461	Aliza Abdul Latif, Zaihisma Che Cob,Sulfeeza Mohd Drus, Rina Md Anwar,HusniMohdRadzi	UnderstandingDepressionDetectionUsingSocialMedia	AlizaAbdulLatif
		UniversitiTenagaNasional,Malaysi a		
		Saodah Omar, Muhammad Hafizal NaimAbd Razak, Ahmad Asri Abd		
7	1570742112	Samat,SamihahAbdullah,Kamar ulazharDaud	Analysing the Impact of Distribution Generation for Distribution System	SaodahOmar
		Universiti Teknologi MARA, PenangBranch,Malaysia	Generation for Distributions ystem	Dr. Mahesh Bung

8	157074	5086	Abdul-Majid Universiti Tun Hussein Onn		Design of a 14-Bit Hybrid DAC for High ResolutionApplicationsin SAR ADCs		MatthewKhoo
9	157074	5382	Alya Geogiana Buja,	ı			AlyaGeogianaBuja
10	157074	5805	Mohammad Amirul Adika, <i>Aimi IdzwanTajudin</i> , Ahma Asri Abd Samat,	ıd	Design an Optimal PI Controller Using Artificial ColonyAlgorithmforBuckConverter	Bee	AimiIdzwanTajudin
			MARA,				
1570	747851	Inta Najib Emeli	n Rahayu Ibrahim, Mohd MohdHussain, Ahmad Asri Abd Samat, iaNoorsal,AhmadMalikiOm ar niversiti Teknologi MARA,			Into	anRahayuIbrahim
1570	0748504	Nur	Ameerah Abdul Halim, Ajune WanisIsmail	·	casting Method Using Hand Gesture for Target SelectionontheOccludedObject inHandheldAugmentedReality	NurA	meeral No al Halis Bur Dr. Mahes B.E. M
	9 10	<b>9</b> 157074	9 1570745382  10 1570745805  Un Pena Inta Najib Emeli 1570747851 Un Pena Nur	YuzmanYusoff,Hasmayad Abdul-Majid  Universiti Tun Hussein Onn Malaysia,Malaysia  Alya Geogiana Buja, Maheran Katan,Nasreen Miza Nasrijal, Sharifah FaigahSyedAlwi,TanGek Siang  Universiti Teknologi MARA, MelakaBranch,Malaysia  Mohammad Amirul Adika, Aimi IdzwanTajudin, Ahma Asri Abd Samat, SaifulFirdausAbdShukor,Kan ulazharDaud  Universiti Teknologi MARA, PenangBranch,Malaysia  Intan Rahayu Ibrahim, Mohd Najib MohdHussain, Ahmad Asri Abd Samat, EmeliaNoorsal,AhmadMalikiOm ar  Universiti Teknologi MARA, PenangBranch,Malaysia  Universiti Teknologi MARA, PenangBranch,Malaysia  Viniversiti Teknologi MARA, PenangBranch,Malaysia  Nur Ameerah Abdul Halim, Ajune WanisIsmail	YuzmanYusoff,Hasmayadi Abdul-Majid Universiti Tun Hussein Onn Malaysia,Malaysia  Alya Geogiana Buja, Maheran Katan,Nasreen Miza Nasrijal, Sharifah FaigahSyedAlwi,TanGek Siang Universiti Teknologi MARA, MelakaBranch,Malaysia  Mohammad Amirul Adika, Aimi IdzwanTajudin, Ahmad Asri Abd Samat, SaifulFirdausAbdShukor,Kamar ulazharDaud  Universiti Teknologi MARA, PenangBranch,Malaysia  Intan Rahayu Ibrahim, Mohd Najib MohdHussain, Ahmad Asri Abd Samat, EmeliaNoorsal,AhmadMalikiOm ar Universiti Teknologi MARA, PenangBranch,Malaysia  Nur Ameerah Abdul Halim, Aiune WanisIsmail Ray	8 1570745086  YuzmanYusoff, Hasmayadi Abdul-Majid  Abdul-Majid  Universiti Tun Hussein Onn Malaysia, Malaysia  Alya Geogiana Buja, Maheran Katan, Nasreen Miza Nasrijal, Sharifah FaigahSyedAlwi, TanGek Siang Universiti Teknologi MARA, MelakaBranch, Malaysia  Mohammad Amirul Adika, Aimi IdzwanTajudin, Ahmad Asri Abd Samat, SaifulFirdusAbdShukor, Kamar ulazharDaud  Universiti Teknologi MARA, PenangBranch, Malaysia  Intan Rahayu Ibrahim, Mohd Najib MohdHussain, Ahmad Asri Abd Samat, EmeliaNoorsal, AhmadMalikiOm ar  Universiti Teknologi MARA, PenangBranch, Malaysia  Modified Hybrid Optimization of Selective HarmonicEliminationTechnique for5-LevelH- Bridge Inverter  Nur Ameerah Abdul Halim, Ajune WanisIsmail  ResolutionApplicationsin SAR ADCs  Into the Look: Security Issues, Crypto-Hygiene, FutureDirection of Blockchain and Cryptocurrence Beginners inMalaysia  Design of a 14-Bit Hybrid DAC for High ResolutionApplicationsin SAR ADCs  Into the Look: Security Issues, Crypto-Hygiene, FutureDirection of Blockchain and Cryptocurrence Beginners inMalaysia  Design of a 14-Bit Hybrid DAC for High ResolutionApplicationsin SAR ADCs  Into the Look: Security Issues, Crypto-Hygiene, FutureDirection of Blockchain and Cryptocurrence Beginners inMalaysia  Design of a 14-Bit Hybrid Optimization of Blockchain and Cryptocurrence Beginners inMalaysia  Design of a 14-Bit Hybrid DAC for High ResolutionApplicationsin SAR ADCs	9 1570745885

13	1570752292	Mustafa Zuhaer Nayef, MuhammadImranAhmad, SaidAmirulAnwar UniversitiMalaysiaPerlis,Malaysia	Face Recognition Based on Fusion of Multiple Masks LocalFeature SetsUsingWaveletTransform	MustafaZuhaerNayef
14	1570756633	Nurliyana Abd Mutalib, AminurrashidNoordin, Nadzrie Mohamood, MohdSyafiq Mispan, Norlezah Hashim, EliyanaRuslan, Dayanasari Abdul Hadi, ShamsulFakhar Abd Gani, Madiha Zahari, MohdFarriz Fahar, Lai Len Fatt, Hau Yong Kyan,WangChoonSeang	Design and Implementation of Graphical User Interface forInterfaceBoardComponent Testing	NorlezahHashim
15	1570757331	Universiti Teknikal Malaysia Melaka,Malaysia  Megat Muazzam, Zuraini Zainol, MohdHazaliMohamedHalip  UniversitiTeknologiMARA,Malaysi	Mitigating Malware Threats at Small Medium Enterprise(SME)Organisation: AReview andFramework	MegatMuazzam
16	1570757611	a Syahrul Nizam Samsudin, Bulan Abdullah,NoriahYusoff UniversitiTeknologiMARA,Malaysi a	Big Data Model of Customer Satisfaction and ServiceExperience(CSSE)forAutomotiveAftersalesSer vices	SyahrulNizamSamsudin
17	1570758163	Hashiroh Hussain, NorshuhadaShiratuddin Institute Teacher Education (IPG)DarulamanCampus,Malaysi a	Enhancing Compellingness of Digital StorytellingApplicationsWith Digital Tools	HashirohHussain
			i	Dr. Mahesh E Director Director Poornima College Poornima College Filico Insti-

18	1570758855	Saffa Raihan Zainal Abidin, Siti FadzilahMat Noor, Noraidah Sahari@Ashaari,NurulHusnaMahadzir,A bdulHalim Ali Universiti Teknologi MARA, Kedah Branch,Malaysia	Preliminary Validation of Serious Game Model ElementsCompatible With Brain- Based Learning Using DelphiTechnique	SaffaRaihanZainalAbidin
19	1570758864	Mohammad Haziq Ishak; Mohd SyafiqMispan, Yan Chiew Wong, MuhammadRaihaanKamaruddin,Mikhail Korobkov Universiti Teknikal Malaysia Melaka,Malaysia	FPGA-Based Obfuscated Delay PUF for SecurityEnhancementAgainstM L-Attack	MohammadHaziqIshak
20	1570758870	Tajul Rosli Razak, Nazifa Adila KhairolFaizi, Mohammad Hafiz Ismail, ShukorSanim Mohd Fauzi, Ray Adderley JMGining UniversitiTeknologiMARA,PerlisBranch	Towards Capturing Mango Grading From Human Experts - AComprehensive User Study	TajulRosliRazak,
21	1570759609	Kamilah Irdina Mohd Fadilah, AngelaSiew Hoong Lee, Zuraini Zainol, MansoorEbrahim SunwayUniversity,Malaysia	Covid- 19EffectonUndergraduateComputingStudent s'Performance atHigher Education:PilotStudy	Kamilah Irdina MohdFadilah
22	1570762644	Zainal Hisham Che Soh, Liyana BalqisMohd Zamri, Siti Noraini Sulaiman, SyahrulAfzal Che Abdullah, Saiful Zaimy YahayaandMohammadNizamIbrahim UniversitiTeknologiMARA,Malaysia	Cold Chain Management System via Low Power Wide AreaNetwork andIoT	ZainalHishamCheSoh
				Dr. Mahesh B. Directo Directo Olice o

23	1570763108	Mohamad Shah Sabri, Kamarulazhar Daud, <b>Wan Salha Saidon</b> , Nurul Huda Ishak,AhmadAsriAbdSamat,SitiSalwaMat Isa Universiti Teknologi MARA, PenangBranch,Malaysia	Feed Forward Neural Network Approach for VoltageTransientsIdentificationandCl assification	WanSalhaSaidon
24	1570763212	Anthony Roston Anak Tarip, Kamarulazhar Daud, Ahmad Puad Ismail, Aimi Idzwan Tajudin, Saodah Omar, MohdNajibMohdHussain Universiti Teknologi MARA, PenangBranch, Malaysia	Multilayer Perceptron Neural Network Approach forVoltage SagsDetectionandClassification	KamarulazharDaud
25	1570763592	Syahirah Azizan, Rozita Ismail, AslinaBaharum,NurulHidayahMatZain UniversitiTenagaNasional,Malaysia	Exploring the Factors That Influence the Success ofDigitalizationin anOrganization's ITDepartment	Syahirah Azizan,Rozita Ismail
26	1570763633	Anis Amilah Shari, Shafaf Ibrahim, ImranMohammad Sofi, Mohd Rahmat MohdNoordin, Asma Shazwani Shari,MuhammadFaqihMohdFadzil Universiti Teknologi MARA, MelakaBranch,Malaysia	The Usability of Mobile Application for Interior Design viaAugmentedReality	AnisAmilahShari
27	1570764216	Siti Solehah Md Ramli, Nur Diana ShahiraRosli, Nurul Huda Ishak, Nur FadhilahJamaludin, Abdul Malek Saidina Omar, NurDarinaAhmad Universiti Teknologi MARA, PenangBranch, Malaysia	Development of Apps Software for Designing High VoltageAC Substation Grounding System With Different Shapes ofGridWithor WithoutRods	SitiSoleha Ma C. mli Bundele Dr. Mahesh Bundele B.E. M.E. Ph.D. Director B.E. M. B.

28	1570764300	Zainab Othman, Nur Nabilah Abu Mansor,NurFarhaniAzmi,NurulHidayahMat Zain,	SnakeSpeciesIdentificationUsingDigitalImage Processing	KhairulAdilahAhmad
		Khyrina Airin Fariza Abu Samah,IsmassabahIsmai, <i>KhairulAdilahA</i> <i>hmad</i> Universiti Teknologi MARA, Kedah Branch,Malaysia		
29	1570764355	Zainal Hisham Che Soh, MohammadAfwan Bin Mohd Daud, Mohd HanapiahAbdullah, Muhamad Syazwan MohamadSarudin, Rosheila Darus, KamarulazharDaud UniversitiTeknologiMARA,Malaysia	Smart Cigarettes Smoke Detection System and Alert via IoTCloud	ZainalHishamCheSoh
30	1570765635	Norizan Mat Diah, Mohd Lajim MohdJahim, <b>Noor Aini Mohd Roslan</b> , ZaidahIbrahim,Azizi Abdullah UniversitiTeknologiMARA,Malaysia	Development of Mobile Application for Plant DiseaseRecognitionUsingConvolutionalNe uralNetworkMethod	NoorAiniMohdRoslan
31	1570765696	Mohamad Amiruddin Mohamad, MohdTalmizieAmron, Nur HidayahMdNoh Universiti Teknologi MARA, TerangganuBranch,Malaysia	Assessing the Acceptance of E-Learning via TechnologyAcceptanceModel(TAM)	Mohamad AmiruddinMoham ad
32	1570766217	Mohd Najib Mohd Salleh, Kashif HussainTalpur,Syahizul AmriDzulkifli Universiti Tun Hussein Onn Malalaysia,Malaysia	Optimising Margin in Weighted Support Vector MachinesforFloodProblem	MohdNajibMohdSalleh

33	1570766357	Samsul Setumin, Muhamad Amirul HazimMohd Hamidi <i>Mohd Hussaini</i> <i>Abbas</i> , AdiIzhar Che Ani, Mohamed Mydin M. AbdulKader <i>Universiti Teknologi MARA</i> , <i>PenangBranch,Malaysia</i>	Characterizing Global Hand-Crafted Feature Descriptors forSketch-BasedImageRetrieval	Mohd HussainiAbbas
34	1570766387	Saifuddin Mohd, Puteri Nor EllyzaNohuddin Malaysian Administrative Modernisationand Management Planning Unit(MAMPU),Malaysia	A Framework of Procurement Analytics for Fraud CoalitionPredictioninMalaysia	SaifuddinMohd
35	1570766660	Hawa Mohd Ekhsan, Mohamad Arif AsrafZainudin,Jiwa Noris Hamid Universiti Teknologi MARA, Perlis Branch,Malaysia	MobileAppforWalletTrackingUsingGPSTracker	HawaMohdEkhsan
36	1570766732	Farah Aiman Ahmad Shahrien, ZunairahHajiMurat,Ros ShilawaniS.Abdul Kadir UniversitiTeknologiMARA,Malaysia	Preliminary Study: The Electromagnetics Radiation (EMR)FromEpipremnum AureumUsingFrequencyDetector	Farah Aiman AhmadShahrien
37	1570766909	FairuzShohaimay,EddieShahrilIsmail UniversitiKebangsaanMalaysia,Malaysia	Efficient Password Mutual Authentication Scheme WithSessionKey Agreement UsingSmartCard	FairuzShohaimay
38	1570767046	Iqbal Haziq Jamal, Che Ani Adi Izhar, A.S.Fauzilan,M.I.FMaruzuki,Z.Hussain, M.F.A.Rahman  Universiti Teknologi MARA, PenangBranch,Malaysia	SystematicLiteratureReview:HumanGaitCyc leModelUsingImage-TemporalFeature	IqbalHaziqJama!  Dr. Mahesh B

		T	T	<del></del>
39	1570767252	Siti Nur Afifa Hamidi, <i>Abdul Malek SaidinaOmar</i> , Mohamad Adha Mohamad Idin,Ahmad Asri Abd Samat, Siti Solehah MdRamli,MuhammadKhusairiOsman <i>Universiti Teknologi MARA</i> , <i>PenangBranch,Malaysia</i>	Streetlight System Information Modelling and ManagementforEnergy Reduction	AbdulMalekSaidinaOmar
40	1570767349	Azlan Bin Abdul Aziz, Intan Nur HafawatiBt Adam, Jamaluddin Bin Jasmis, ShamsulJamelBinElias, ShaifizatBtMansor Universiti Teknologi MARA, Kedah Branch, Malaysia	N-Gain and System Usability Scale Analysis on Game BasedLearningforAdult Learners	ShaifizatBtMansor
41	1570767725	<i>MinakshiBoruah</i> ,RanjitaDas  National Institute Of Technology,Mizoram,India	Identification of DNA Motif Using Likelihood and AttentionBasedPoolingMethodin theGRU Framework	MinakshiBoruah
42	1570767799	MirzaMuntasirNishat, Md. Ashif Mahbub, Ashik Ahmed, Md Abdullah AlMamun Islamic University of Technology (IUT), Bangladesh	Performance Assessment of Machine Learning Classifiers inDetecting Psychological Impact of Postgraduate StudentsDue toCovid-19	Md.AshifMahbub
43	1570768255	Fatin Fatihatul Ashyikin Kamaruzaman, Che Ani Adi Izhar, A.S. Fauzilan, SamsulSetumin, Z. Hussain, M.F. Abdullah Universiti Teknologi MARA, Penang Branch, Malaysia	Systematic Literature Review: Recognition of Human GaitCycleUsingMachineLearningApproac h	Fatin Fatihatul AshyikinKamaruzam an
44	1570768514	Suwarna Shete, Pranjal Jog, R. K.Kumawat, D.K. Palwalia Career Point University, Kota, India.	Battery Management System for SOC Estimation of Lithium-IonBatteryin Electric Vehicle:AReview	Dr. Mahesh Bundel Dr. Mahesh Bundel SuwarnaSh Prector Engine SuwarnaSh Prector Engine Programma Constitutional A

45	1570768521	Pranjal Jog, Suwarna Shete, R. K.Kumawat, D.K.Palwalia Career Point University, Kota Rajasthan ,India	ElectricVehicleChargingStationInfrastructure: AReview	PranjalJog
46	1570768873	Heryanto, <i>Rezi Delfianti</i> , Ardyono Priyadi, Adi Soeprijanto Institut Teknologi Sepuluh Nopember, Indonesia	Optimization of DG Placement in Real Distribution Systemas A Solution for Increasing the Quality of the System UsingGAAlgorithms	ReziDelfianti
47	1570769315	RanjitKumarBindal, PrateekShrivastava ChandigarhUniversityGharuan, India	Arithmetic Distance Relay Computation And UtilizationUsingSingleCircuitWirefor40 0KVBusSubstations	RanjitKumarBindal
48	1570769374	Salehuddin Abd Latif, Uswah Khairuddin,Anis SalwaMohdKhairuddin UniversitiTeknologiMalaysia,Malaysia	Development of Machine Vision System for Riverine DebrisCounting	SalehuddinAbdLatif
49	1570769687	Windhya Rankothge, Narmada Gamage, Haritha Dewwiman, Tharani Ariyawansa, Ahamed Suhailand Bhanu Sene virathne Sri Lanka Institute of Information Technology (SLIIT), Sri Lanka	Network Traffic Prediction for a Software Defined NetworkBasedVirtualized NetworkFunctionsPlatform	HarithaDewwiman
50	1570770027	Mohd Norhisham Razali, Ana SalwaShafie, Rozita Hanapi Universiti Teknologi MARA SarawakBranch,Malaysia	Performance Evaluation of Masked Face Recognition UsingDeep Learning for Covid- 19 Standard of Procedure (SOP)ComplianceMonitoring	MohdNorhishamRazali
				Dr. Mahesh E. Directo. Directo. Poornima College of Fillico Institution Stapura, M.

51	1570771499	Virendra Sharma, Kavita Rawat, GauravJain, Nishant Agrawal, Shaaz Rizvi, PrabhatKumar Arya College of Engineering & IT Jaipur,India	Hybrid SPV & Fuel-Cell Power Optimization by BatteryStorage System for Utility Network Load With & WithoutGrid	VirendraSharma
52	1570771528	Bhuvnesh Rathor, Anamika Kumari, AjitSingh Rajawat, Vishvendra Singh Punia,Gaurav Jain, Vandana Agrawal RajasthanTechnicalUniversityKota,India	Robust Control Techniques for Four-Area System With DFIGSystem	BhuvneshRathor
53	1570771755	Annu Govind, Vijay Kumar Tayal, PrakashKumar,Rakesh KumarKumawat Amity University, Uttar Pradesh, Noida,India	Phase Synchronization Control Techniques Under AdverseGridConditions UsingShunt ActivePowerFilter	AnnuGovind
54	1570771814	Siti Zulaiha Ahmad, Arifah Fasha RosmaniandNur AmmarahMohammadNazri Universiti Teknologi MARA, Perlis Branch,Malaysia	A Game-Based Learning Approach Using InteractiveMultimedia to Learn Fraction (Mathematics) AmongPrimary School Children	SitiZulaihaAhmad
55	1570771896	Pravin M. Sonawane, Pankaj Gakhar, Tarun Varshney, Neeraj Kumar Garg, Kuldeep Jayaswal, Gaurav Jain Rajasthan Technical University Kota, India	Optimal Allocation of Distributed Generator Placement: AnOptimalApproachtoEnhance theReliabilityofMicro-Grid	PravinM.Sonawane
56	1570771908	Virendra Sharma, Jayesh Verma, PravinSonwane, Harsh Sharma, Aditya Gupta,PrabhatKumar  AryaCollege ofEngineering& IT,India	Power Management and Voltage Regulation of Self-Governed Hybrid RE-Source Microgrid System forDistributionLoad	VirendraSharma

57	1570771955	<b>Liana Najib</b> , AfidaAhmad Universiti Teknologi MARA, Kedah Branch,Malaysia	Students' Satisfaction in Online Distance Learning UsingFuzzyLogicandInferenceSystem	LianaNajib
58	1570772126	Pankaj Verma, Nitish Katal, Gaurav Jain, Kuldeep Jayaswal Rajasthan Technical University, India	Global Maximum Power Point Tracking Methods for Multi-Peak Power Versus Voltage Curve of Photovoltaics: AReview	PankajVerma
59	1570772333	NbhanD Salih, MarwanD Saleh  Multimedia University, Malaysia	RobustBloodVesselSegmentationAlgorith mforFundusImages	MarwanDSaleh
60	1570772459		A Double-Ended Scheme for Fault Detection and Phase-Type Classification in Fixed Series CompensatedTransmissionLineDuringDi storted Signals	GauravKapoor
		Gaurav Kapoor, Pankaj Gakhar, Pankaj Verma, Pravin Sonwane, Kesari Singh, Bhuvnesh Rathore Rajasthan Technical University Kota, India		
61	1570772798	Mohebbanaaz, Y.Padma Sai, L.V.RajaniKumari VNR Vignana Jyothi Institute ofEngineeringandTechnology,Indi a	Automated Detection of Cardiac Arrhythmia UsingRecurrentNeuralNetworks	Mohebbanaaz
62	1570772826	Durga R,PoovammalE  SRM Institute of Science and  Technology,India	FederatedLearningModelforHealthchainSystem	Durga R
				Dr. Mahesh B.E. Director B.E. College B.E. B.E. B.E. B.E. B.E. B.E. B.E. B.E

63	1570773197	Nurhafizan Che Nah, Wan NurshazelinWanShahidan Universiti Teknologi MARA, Perlis Branch,Malaysia	Learning Success Factor in Open Distance Learning (ODL)MethodUsingFuzzy AHP	NurhafizanCheNah
64	1570773340	Yani Athmane Bennai, Samira Yessad,LouizaBoualloucheMedjkoune UniversityofBejaia,Algeria	Link Stability Based Routing Protocol for Highway ScenariosinVehicularNetworks	YaniAthmaneBennai
65	1570773633	Ahmed Samir Badawi, Mohamed Ouda, Alhareth Zyoud, Siti Hajar Yusoff International Islamic University Malaysia, Malaysia	Maximum Power Point Tracking Controller Technique UsingPermitMagnetSynchronous Generator	AhmedSamirBadawi
66	1570773970	Zainura Idrus, Fatin S. Rusli, ZanariahIdrus, Muhammad Aqil Mohd Nazri, AdelAl- zebari,NoorHasnitaAbdulTalib UniversitiTeknologiMARA,Malaysia	SwamPlot:DataRedistributioninNon- RandomTechnique	ZainuraIdrus
67	1570774052	SaimanQuazi,SarhanMusa PrairieViewA&MUniversity,USA	Image Classification and Semantic Segmentation With DeepLearning	SaimanQuazi
68	1570774062	KehindeGilbert,SarhanM.Musa PrairieViewA&MUniversity,USA	PerformanceMeasurementofOpenShortestPat hFirstProtocolWith FailureRecovery in IP	KehindeGilbert
69	1570774434	TR . Kalai Lakshmi, Kaja Bantha Navas R,Sharmila Parveen. S, <b>Yogesh.M</b> , <b>DeepanEdwardDasan.M</b> ,HariHaraSuda n.P Sathyabama Institute of Science andTechnology,India	An Empirical Study on Industry 4.0 Future Practices in IndianMSMEs	Yogesh 13 Depar Bundele Edward Mah. W BE ME. Ph. Director Engineering

70	1570774501	Romiza Md Nor, <i>Muhammad AzamMuhammadKamal</i> , Huzaifah AH amid <i>UniversitiTeknologiMalaysia</i> , <i>Malaysia</i>	Monitoring Idling Car Gas Leakage and Notification viaMobileWithEco- Feedback	Muhammad AzamMuhamma dKamal
71	1570774661	AyodejiOlanite,SarhanM.Musa PrairieViewA&MUniversity,USA	Power Dissipation of Adiabatic Logic Circuit for FinFET andMOSFETTransistors	AyodejiOlanite
72	1570774705	Intan Maizura Arzimi, Mohd Naz'riMahrin, Surya Sumarni Hussein, NurAzaliah Abu Bakar, Noor Hafizah Hassan,SuriayatiChuprat UniversitiTeknologiMalaysia,Malaysia	Metamodel for Enterprise Architecture: A SystematicLiteratureReview	IntanMaizuraArzimi
73	1570774706	Pavethra M,MUmadevi  SRM Institute of Science and  Technology,India	DeepLearningApproachesfor ImageDehazing	Pavethra M
74	1570774746	Sharifah Nadiyah Razali, Khyrina AirinFariza Abu Samah, Mohd Hafiez Ahmad,Lala SeptemRiza	IoT Based Accident Detection and Tracking System WithTelegram andSMSNotifications	SharifahNadiyah <b>R</b> azali
		KolejKomunitiSelandar,Malaysia		
75	1570774786	Windhya Rankothge, Narmada Gamage, Ahamed Suhail, Tharani Ariyawansa, Haritha Dewwiman, Bhanu Se nevirathne Sri Lanka Institute of Information Technology (SLIIT), Sr iLanka	A Deep Learning Model Optimized With Genetic AlgorithmsforResource AllocationofVirtualized NetworkFunctions	AhamedSuhail

76	1570775067	Nurul Fazleen Binti Abdul Rahim, AdamWong Yoon Khang, Aslinda Hassan,Shamsul Jamel Elias, Johar AkbarMohamatGani, JamaluddinJasmis Universiti Teknikal Malaysia Melaka,Malaysia	Channel Congestion Control in VANET for Safety and Non-SafetyCommunication:  AReview	NurulFazleenBintiAb dulRahim
77	1570775115	Ahmed Samir Badawi, Mohamed Ouda, Alhareth Zyoud, Siti Hajar Yusoff International Islamic University Malaysia, Malaysia	The Simplest Estimation Method of Weibull ProbabilityDistributionParameters	AhmedSamirBadawi
78	1570775134	Nguyen Hoang Khoi Tran, Vinh- HaoNguyen  Ho Chi Minh City University of Technology, VNU-HCM, Vietnam	An EKF-Based Fusion of Visual-Inertial Odometry and GPSforGlobal RobotPoseEstimation	NguyenHoangKhoiTran
79	1570775490	Nor Aina Aliza Ya'kob, Rohani SMohamed Farook, Aznor Hanah AbdulHalim,MohdFairuzMuhammadFa dzil,Mohamad Rizal Abdul Rejab, ShamsulJamelElias UniversitiMalaysiaPerlis,Malaysia	Motion Detection System for Recognition of Early Sign of Depression	NorAinaAliza Ya'kob
80	1570775493	Aznor Hanah, Rohani S Mohamed Farook,MohamadRizalAbdulRejab,MohdF airuz	Cross- LayerOptimizationforVANETCityScenarioU singTaguchiMechanism	AznorHanah
		Muhamad Fadzil, Shamsul Jamel Elias, SitiRafidahMuhamatDawam UniversitiMalaysiaPerlis,Malaysia		
				Dr. Mahesh B. Directo.  Di

81	1570775674	Jyoti Prakash Vengurlekar; Ayush Saxena;RishavDash RamraoAdikInstituteofTechnology,India	Estimation of Simulated Particles in Magnetron Using ImgeColorDetection	JyotiPrakashVengurlekar
82	1570775792	Tan Shi An, Suzi Iryanti Fadilah, PanteaKeikhosrokiani,NurHanaSamsud in UniversitiSainsMalaysia,Malaysia	Exploring the Business Intelligence Efficiency inOrganizationsAmongEmployeesinPenang, Malaysia	TanShiAn
83	1570775814	Windhya Rankothge, Narmada Gamage, <i>Tharani Ariyawansa</i> , Ahamed Suhail, Haritha Dewwiman, Bhanu Senevir athne  Sri Lanka Institute of Information Technology (SLIIT), Sr iLanka	NetEye: Network Monitoring for a Software DefinedNetworkBasedVirtualizedNetwor kFunctionsPlatform	TharaniAriyawansa
84	1570776146	Chandimal Jayawardena, Shyam Reyal,Kekirideniya K.R, Wijayawardhana G.H.T,Rupasinghe D.G.I.U,LakrangaS.Y.R.M Sri Lanka Institute of InformationTechnology(SLIIT),Sr iLanka	AIBased SmartLibraryManagementSystem	WijayawardhanaG.H.T
85	1570776167	Mohd Ali Mat Nong, Juraina Md Yusof,Rosiah Osman, Roslina Mohd Sidek, SuzilaSabil UniversitiPutraMalaysia,Malaysia	Motorcycle Image Evaluation by Contrast StretchingMethod	Moha A Manesh Bund Dr. Manesh Bund Dr. Manesh Bund Drector College of Engl

86	1570778277	PoonamRajendra Gohad, Sajidullah Khan Sandip University, India	Diagnosis of Leaf Health Using Grape Leaf Thermal ImagingandConvolutional NeuralNetworks	PoonamRajendraGohad
87	1570778293	Setyawan P. Sakti, <i>Heru Nurwarsito</i> , DidikSuprayogo, Cahyo Prayogo, Awang SatyaKusuma <i>UniversityofBrawijaya,Indonesia</i>	Automation of CNC Machinery in Improving Quality andProduction Speed of Agricultural Product ProcessingMachineryComponents	HeruNurwarsito
88	1570778696	MdYushalifyMisro,AfidaAhmad Universiti Teknologi MARA, Kedah Branch,Malaysia	Preserving Monotonicity of Ball Curve andIt'sCurvatureProfile	AfidaAhmad
89	1570778728	Nurul Husna Mahadzir, Ahmad AfifAhmarofi, Siti Nurbaya Ismail; Nor HafizahAbdul Razak, Jasmin Ilyani Ahmad, AfidaAhmad Universiti Teknologi MARA, Kedah Branch, Malaysia	EDU_INSIGHTS: The Analytic Tools to Assess Students'SatisfactionLevel inOpenandDistanceLearning(ODL)	NurulHusna Mahadzir
90	1570779424	Mazura Mat Din, Noor Rasidah Ali, TanizaTajuddin, Siti Rafidah Muhamat Dawam,ShaifizatMansor Universiti Teknologi MARA, Kedah Branch,Malaysia	Mobile Application for Malaysian Diabetes DietaryMonitoringSystem(My- DDMS)	MazuraMatDin  Mahesh E
				Peornima College Colle

91	1570779481	Ahmad Afif Ahmarofi, Zetty AinKamaruzzaman, Hamirahanim AbdulRahman, Khairil Azman Masri, NadirahAbdul Rahim, S.Sarifah Radiah Shariff,ZanariahIdrus, SitiNurbaya Ismail	Development of A Computer Simulation on Road PricingStrategy to Reduce Congestion and Carbon DioxideEmission:ASystemDynamics Approach	Ahmad Af if Ahmar of i
		Universiti Teknologi MARA, Kedah Branch,Malaysia		

# Attendees as Track Chairs, Speakers, Session Chair, Faculty and Students from Organizing Institutes

	Name	Affiliataion	Designation
97	HARYANI HARON	PROFESSOR TSDR	Dean, Faculty of Computerand Mathematical Sciences, Universiti Teknologi MARA(UiTM)
98	MOHAMADABDULLAHHEMDI	PROF.DR.	Rectorof UiTM Kedah
99	MAHESHBUNDELE	DR.	Principal & Director ofPoornima College ofEngineering
100	RAHULSINGHI	AR	DirectorofPoornimaGroup
101	VISHWANATHSINHA	DR	FIEEE,Chairperson
102	SALMIAHKASOLANG	PROFESSOR TSDR	Rectoro 10 Pers n
103	SHUKORSANIMMOHD FAUZI	PROFESSOR TSDR	Rectorof UiTM

104	NOORITAWATIMDTAHIR	PROFESSORDR	IEEE Industrial Electronic /Industry ApplicationsMalaysiaJo intChapter
105	AZHARIHASHIM	DR	Deputy Rector of Research& Industrial LinkagesDivision,UiTM Kedah
106	KAMARUDINOTHMAN	DR	Deputy Rector of AcademicDivision,UiT MKedah
107	SITIRAFIDAHMUHAMAT DAWAM	HEADOFFACULTY	Faculty of Computer andMathematical Sciences,UiTMKedah Branch
108	TANIZATAJUDDIN	DR	Chair1ICRAIE2021
109	SITISHAFRAHSHAHAWAI	FACULTYMEMBER	UiTMKedah
110	'AMIRAHHAZWANIABDULRAHIM	FACULTYMEMBER	UiTMKedah
111	ABRAZAKMANSOR	FACULTYMEMBER	UiTMKedah
112	AFIDAAHMAD	DR	Faculty Member UiTMKedah
113	AHMAD AFIF AHMAROFI	DR	Faculty Member UiTMKedah
114	ANISMARDIANA AHMAD	FACULTYMEMBER	UiTMKedah
115	ASMAHANINAYAN	FACULTYMEMBER	UiTMX ount Bundele Mahesh Bundele Mahesh Bundele ME. Ph.D. UiTMKed birector Engineering
116	FAZILLAHBINTIBOSLI	FACULTYMEMBER	Trade Valend
<u> </u>	<u>,                                      </u>		Poornima College Hair III

132	NURAZLINAABDULRASHID	FACULTYMEMBER	UiTMia College of thomas Area
131	NORLIANAMDNAJIB	DR	Faculty Membersh Bundele UiTMK Mahesh Bundele Director Engineering
130	NORINRAHAYU BINTISHAMSUDDIN	FACULTYMEMBER	UiTMKedah
129	NORASHIKINNASARUDDIN	FACULTYMEMBER	UiTMKedah
128	NORABAIZURABINTIMOHDISA	FACULTYMEMBER	UiTMKedah
127	NORHAFIZAHABDULRAZAK	FACULTYMEMBER	UiTMKedah
126	NORATHIRAHMDZIN	DR	Faculty Member UiTMKedah
125	NOORRASIDAHALI	FACULTYMEMBER	UiTMKedah
124	NOORHASNITAABDULTALIB	FACULTYMEMBER	UiTMKedah
123	NOORHAFIZAHZAINALAZNAM	FACULTYMEMBER	UiTMKedah
122	MAZURAMATDIN	DR	Faculty Member UiTMKedah
121	KHAIRULADILAHAHMAD	DR	Faculty Member UiTMKedah
120	KARTINIKASIM	FACULTYMEMBER	UiTMKedah
119	KAMARULARIFFINMANSOR	FACULTYMEMBER	UiTMKedah
118	JASMINILYANIBINTIAHMAD	FACULTYMEMBER	UiTMKedah
117	IDANORMAYAMOHD NASIR	DR	Faculty Member UiTMKedah

133	NURUL HUSNAMAHADZIR	TS DR	Faculty Member UiTMKedah
134	ROSIDAHAHMAD	DR	Faculty Member UiTMKedah
135	SALEHUDDINSHUIB	FACULTYMEMBER	UiTMKedah
136	SHAHIDAFARHANZAKARIA	FACULTYMEMBER	UiTMKedah
137	SHAIFIZATMANSOR	FACULTYMEMBER	UiTMKedah
138	SHAMSULJAMELELIAS	DR	Faculty Member UiTMKedah
139	SITIFAIRUSMOKHTAR	FACULTYMEMBER	UiTMKedah
140	SITINURALWANISALLEH	DR	Faculty Member UiTMKedah
141	SITINURBAYAISMAIL	FACULTYMEMBER	UiTMKedah
142	ZANARIAHIDRUS	FACULTYMEMBER	UiTMKedah
143	SUHARDIHAMID	FACULTYMEMBER	UiTMKedah
144	SYAFIZASAILASAMSUDIN	FACULTYMEMBER	UiTMKedah
145	NURNAZIFAMDHASANI	FACULTYMEMBER	UiTMKedah
146	MOHDZHAFRIMOHDZUKHI	FACULTYMEMBER	UiTMKedah
147	ABDULMALEKSAIDINA OMAR	DR	Faculty Metabel Bundele UiTMPeMahesh Bundele
148	NURULHUDAISHAK	DR	Faculty Mana College truth of Area Uril 1919

149	KAMARULAZHARDAUD	DR	Faculty Member UiTMPenang
150	NURDARINA AHMAD	DR	Faculty Member UiTMPenang
151	AHMAD ASRIABD SAMAT	DR	Faculty Member UiTMPenang
152	AIMIIDZWANTAJUDIN	DR	Faculty Member UiTMPenang
153	MUHAMMADNABILFIKRIJAMALUDDI N	DR	FacultyMemberUiTMPerli s
154	LATIFAHMOHAMED	DR	FacultyMemberUiTMPerli s
155	MOHAMMADHAFIZISMAIL	DR	FacultyMemberUiTMPerli s
156	TAJULROSLIRAZAK	DR	FacultyMemberUiTMPerli s
157	SITIZULAIHAAHMAD	TS DR	FacultyMemberUiTMPerli s
158	AZNOORAOSMAN	DR	FacultyMemberUiTMPerli s
159	AINISYUHADAMDZAIN	DR	Faculty member, UNIMAPPerlis
160	NURADYANIMOHD AFFENDI	DR	Faculty member, UNIMAPPerlis
161	WANZUKI AZMAN WANMUHAMAD	DR	Faculty member, UNIMAPPerlis
162	WANNURSURYANIFIRUZWANARIFFIN	DR	Faculty manner, sh Bundele UNIMAMANS BE ME Pho
163	ZULKIFLIHUSIN	DR	Faculty memb

164	ALYAGEOGIANABUJA	DR	Faculty member, UiTMMelaka
165	BALKIAHMOKHTAR	DR	FacultyMemberUiTMPerli
166	NORAYANTICHEJAN	DR	FacultyMemberUiTMPerli s
167	NURFATIHAHFAUZI	DR	FacultyMemberUiTMPerli s
168	AZWATI AZMIN	DR	FacultyMemberUiTMPerli s

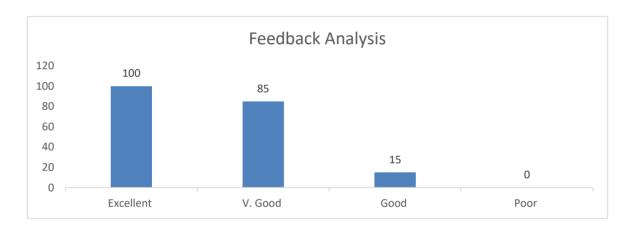
169	KHAIRUL ANWAR SEDEK	DR	Faculty Member UiTM Perlis
170	SAODAH OMAR	DR	Faculty Member UiTM Perlis
171	MUHAMMAD ZULHAIKAL BIN ZURAIDI	STUDENT	FSKM UITM KEDAH
172	MUHAMMAD SYAFIQ AIMAN BIN MOHD FUAD	STUDENT	FSKM UITM KEDAH
173	AIMIE HAZWANIE BINTI HISYA	STUDENT	FSKM UITM KEDAH
174	NUR FARISHA IDAYU BINTI MOHD ZAMRI	STUDENT	FSKM UITM KEDAH
175	KHAIRUNNISA AUNI BINTI MOHD SIDIK	STUDENT	FSKM UITM KEDAH
176	NURUL SYAZWINA BINTI ZAMRI	STUDENT	FSKM UITM KEDAH
177	IESMA DANIAL BIN NORDIN	STUDENT	FSKM UITM KEDAH
178	MUHAMMAD ALIF HAKIMI BIN KHIRUL ANUAR	STUDENT	FSKM UITM KEDAH
179	ADHAM BIN NAZRI	STUDENT	FSKM UITM KEDAH
180	MUHAMMAD AKMAL BIN ROSDI	STUDENT	FSKM UITM KEDAH
181	HAFIY NAWFAL BIN MOHAMAD MAHADZIR	STUDENT	FSKM UITM KEDAH
182	MOHAMAD RAFIQ BIN MOHAMAD SOFI	STUDENT	FSKM UITM KEDAH
183	MUHAMMAD IRFAN DANIAL BIN HAFIZAN	STUDENT	FSKM UITM KEDAH
184	NURUL BATRISYIA HAZWANI BINTI MOHD TAUFEK	STUDENT	FSKM UITM KEDAH  Dr. Mahesh Bung  Director Eng

#### **FEEDBACKANALYSIS:**

Written feedback was collected from each participant during each session. Oral feedback and views shared by the participants revealed that the conference has successfully fulfilled the objectives of the conference set forth. All the participants in their oral feedback have given positive remarks in all respects and shown their satisfaction over all the arrangements except about the time management.

**♦** The analysis is presented below;

	Attributes	Commen ts	No. Of Comments
Program	How was the seminar?	Excelle nt	100
		V. Good	85
		Good	15
		Poor	0



### **SWOT ANALYSIS:**

The primary goal of such conferences is to promote research and developmental activities in recent advances in engineering and allied areas. Another goal is to promote scientific information inter change between researchers, developers, engineers, students, and practitioners working in and around the world.

# **Strengths of the Conference:**

- Experienced event team.
- Excellent PR.
- High motivation level.
- Usage of the right event marketing tools.
- Good market share, strong brand name.
- Many social media followers.



# **Weakness of Conference:**

- The number of Quality papers was less than expected
- Expenditure

Dr. Mahesh Bundele Dr. Mahesh Bundele BE. ME., Ph.D. Director Director Engineering College of Engineering Fillico Institutional Area Stlapura, JAIPUR



Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

# **CONFERENCEREPORT**

Second International Conferenceon Artificial Intelligence: Advances and Applications (ICAIAA-2021)

**TITLEANDDURATION:**Second International Conference on Artificial Intelligence Advances and Applications (ICAIAA-2021) March 27-28, 2021.

**SPONSORS:** RTU TEQIP-III.

**SUPPORTERS:**Rajasthan Technical University (RTU), Kota.

**ORGANIZING PARTNERS:**ICAIAA-2021 was jointly organized by Poornima College of Engineering, Jaipur and Rajasthan Technical University, Kota in association with Soft Computing Research Society (SCRS)

PUBLISHER(S):Springer

#### **THEMES/TRACKS:**

**Track-1** Artificial Intelligence

**Track-2** Intelligent Sensor, Devices & Applications

### **OBJECTIVES:**

The objective of the conference is to bring together researchers from academia, government agencies, research laboratories and the corporate sector from all over the world to present their research works carried out in Artificial Intelligence domain. On 27<sup>th</sup>March Conference was inaugurated by Chief Guest Prof. R.A. Gupta, Hon'ble Vice Chancellor, Rajasthan Technical University, Kota, Guest of Honor Dr. MarcinPaprzycki, Polish Academy of Science, Warsaw, Poland and Dr. DhirendraMathur, RTU (ATU) TEQIP-III Coordinator, Dr. Harish Sharma, Associate Professor, RTU Kota, Organizing Secretary 17 LAA 2021 Dr. MukeshSaraswat, Associate Prof., Jaypee Institute of Togethology Common. MahendraLalwani, Associate Prof., RTU, Kota, Dr. Nilaring, Assistar Professor. Techno India College of Technology, Kolkata, Ar.Rahul singhi Lama Group and Dr. Mahesh M. Bundeles, Director, PCE, Gen. And A 2021, Mr. PankajDhemla, Vice Principal, PCE, Dr. GarimaMathur, Convenor ICAIAA 2021. In this

Conference 298 papers from 33 different countries submitted their research articles. 97 papers are accepted for the publication and presentation during the conference. 80 papers are registered in the conference. 16 Parallel Technical Sessions are scheduled. 04 Keynote talks will be delivered by the eminent speakers **KatarzynaWasielewska-Michniewska**, Systems Research Institute, Polish Academy of Sciences,

Dr. **NilanjanDey,** JIS University, Kolkata, Dr. **PrashantJamwal,** Nazarbayev University (NU), Astana, Kazakhstan, **Dr. Montaz Ali,** University of the Witwatersrand, Johannesburg, South Africa. Speakers shared their thoughts that Artificial Intelligence research is leading to evolve in the area of Machine Learning, Deep Learning applications in Healthcare, Agriculture, Business and Security etc. AI is an emerging technology that shall be used almost all applications / technologies/ systems in one or other form.

## **EXPECTEDOUTCOMES:**

The expected outcomes from the Conference are:

- A toolkit for implementation
- Learning and knowledge exchange among Conference participants through interdisciplinary discussions.
- A series of documented case studies, video interviews, information briefs and other materials for Artificial Intelligence.
- A Conference report, including lessons from the International Decade for Advancement and Application in the field of Artificial Intelligence.

**BROCHURE/POSTER/LEAFLET/FLYER:** 

Dr. Mahesh Bundele BE, ME., Ph.D. Director Director College of Engineering Peornima College of Engineering Bill-0, Bill Co Institutional Area

# 2ndInternational Conference on Artificial Intelligence: **Advances and Applications-2021 (ICAIAA-2021)**

March 27-28, 2021





## RAJASTHAN TECHNICAL TEOIP-III **UNIVERSITY, KOTA**



Natural Language Processing

Neural Network Theory and Architectures

VANET
 Energy Optimization of Wireless Devices
 Agriculture Applications
 Disaster Management
 Variable Bio-Sensors
 Coverage Problem in WSN
 Sensors for Medical Health Application
 Hybrid Intelligent Systems
 Multi-Agent Systems
 Multi-Agent Systems
 Environmental/ Earth Sensing
 Pervasive Computing And Ambient Intelligence
 Synthesizing Controllers
 Industrial Monitoring
 Security and Privacy Data Mining
 Business intelligence

100% Fee Waiver

80 USD

60 USD

60 %

4000 INR/-

3000 INR/-

Registration Fees

Brain-Machine Interfaces

Human–Computer Interact
 Nature Inspired Algorithm

Data Mining

VANET
 Energy

RTU & BTU Faculty & Students
(All the authors should be from RTU & BTU affiliated colleges)

All the papers should be prepared as per author guidelines. The m should be thoroughly checked for grammatical or typographic submission. Authors should ensure that the similarity score of their res above 15 %. Manuscripts having similarity score more than 15 % shall All the review manuscripts should be submitted in 1970 fromta without affiliations using Easy Chair Conference Management Systems Template in Word (A4) or in Latex. However the names of all authors should say the submission. Maximum number of page allowed will

Regular Author Academician Regular Author Student (PG)

Regular Author Student (UG)

RTU & BTU Faculty & Students Attendee / Co Author (First Author affiliated colleges & co Authors are from

#### **ICAIAA-2021 COMMITTEES**

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#### **CALL FOR PAPERS**

have not been yet submitted / published and that illustrate research, surveying works, and industrial applications in artificial

#### Track-I Artificial Intelligence

- Differential Evolution
- **Evolutionary Scheduling**
- Machine Learning

- Artificial Intelligence In Modeling And Simulation Artificial Immune Systems Computer Vision And Speech Understanding
- - Track-2 Intelligent Sensor, Devices & Applications
- Sensors in Automobile

- Sensors in Automobile
  Fuzzy Systems For Robotics
  Intelligent Database Systems
  Sensor Modeling And Identification
  Molecular And Quantum Computing
  Robotics And Related Fields
  Web Intelligence Applications And Search
  Intelligent System Architectures
  Health Care Applications
  Network Intelligence
  Routing Protocol in WSN
  Natural Language Processing

- Natural Language Processing
  CAD Design & Testing
  Computational Theories Of Learning

- Intelligent Sensor Information Retrieval

#### Oral Presentation

The author / presenter shall prepare 15 minutes presentation about the research paper contribution including Objective, Justification, Methodology, Results, and Conclusion as per template here. There will be 43-5 minutes uprepared in the presentation schedule will be displayed well before time.

#### Important Dates

CONTACT:

Dr. Mahesh Bundele mahesh.bundele@poornima.edu.in

M 9828999440

### Organized by











POORNIMA COLLEGE OF ENGINEERING ISI-6 RIICO Institutional Area, Sitapura, JAIPUR – 302022 (Raj.), INDIA

Dr. Mahesh Bundele Dr. Mahesh B.E., M.E., Ph.D. Director Director Engineering Poornima College of Engineering Plant Filico Institutional Area Stlapura, JAIPUR

# RESPONSE(SUBMISSION/ACCEPTANCE/PRESENTATION):

In ICAIAA-2021, total 298 papers are received across the world consented and reviewed the papers. 62 papers were accepted after a rigorous review procedure, making it very selective. 54 papers are registered, Out of which 45 papers are presented in the conference.

	Track1	Track2	Total
Total No. of Papers Submitted	175	123	298
Total No. of Papers Accepted	33	29	62
Total No. of Papers Registered	29	25	54
Total No. of Papers Presented	26	20	46

# **PROGRAMOUTLINE:**

	Opening Ceremony	13:00 – 14:00
	Keynote Talks	14:00 – 15:30
K1	Second rise of semantics in the era of next-generation system architectures  Speaker: KatarzynaWasielewska-	14:00 – 14:45
	Michniewska, Systems Research Institute, Polish Academy of Sciences	
K2	Speaker: NilanjanDey, JIS University, Kolkata, India	14:45 – 15:30
	TS01: Artificial Intelligence	16:00 – 17:00
35	AN EFFICIENT HIDS SYSTEM USING MACHINE LEARNING	
42	Self-supervised Learningfor COVID 19 - An Envision to Salvage  Model  Anjali Jivani, HetalBhavsar and KshitijGupte	
58	FORECAST OF COVID CASES USING DEEP LEARNING  ALGORITHM  NidumoluVijayaAnand and Gunturi Chandra Mouli	
112	Multi-Agent Intrusion Detection System using Sparse PSO K-Mean  Clustering and Deep Learning  Tanushri Jain and Chetan Gupta	
131	Malware Classification based on V Vinay	arious Machine (Mang Tee, Pues) Gautam
	TS02: Intelligent Sensor, Devices & Application	Postnima FIICO Installed
89	A Quick and Single-Ended S	cheme for Fault Detection and

	Classification on Transmission Line	
	Gaurav Kapoor	
	Privacy Preserving Dynamic Task Scheduling For Autonomous	
103	Vehicles	
	Muthurajkumar S, Ajay Karthikeyan C, Pradeep K and Hariharan A	
110	Artificial Intelligence enabled IoT Based Smart Blood Banking System	
118	MuthuKumaran E, Velmurugan K, Venkumar P, AmuthaGuka D and Divya V	
	Reliability enhancement in harmony with prudent coding for flight	
149	critical embedded automatic control software	
117	Shobha S. Prabhu and H.L. Shashirekha	
	Multi-Location Faults in Transmission Lines: Detection and	
155	Classification	
	Gaurav Kapoor	
	TS03: Computer Vision 16:00 – 17:00	
	Detecting depressive online user behavior during global pandemic by	
25	fusing LSTM and CNN Models	
	BhuvaneswariAnbalagan and Jayanthi R R	
	SIMPLIFYING AND OPTIMIZING THE CONVOLUTION ENCODING	
30	ALGORITHM IN ERROR CONTROL CODES	
	Constance Amannah	
	Deep Model for Robust Tomato Disease Detection on Low-Resolution	
63	Leaf Images	
	SiddhantBaldota, Rubal Sharma, NimishaKhaitan and Poovammal E	
	A Novel Entropy-Based FCM Algorithm Using Inverse Fuzzy	
83	Membership Framework and Uncertainty Measure for Segmentation of Brain MR Images	
	Madhumita Ray, NabanitaMahata and JamunaKanta Sing	
	RADAR TARGET RECOGNITION AND CLASSIFICATION USING	
193	SUPERVISED MACHINE LEARNING APPRAOCHES	
	JaganMohana Rao Pathina and Rajesh Kumar P	
	TS04: Big Data Analytics 16:00 – 17:00	
	An Attention-based Medical NER in the Bengali Language	
121	Tanvir Islam, SakilaMahbinZinat, ShamimaSukhi, Zakir Hossain Zamil,	
	AynurNahar and M. F. Mridha	
	Semantic Similarity Extraction on Corpora Using Natural Language	
146	Processing Techniques and Text Analytics Algorithms	
	Nisha Varghese and Punithavalli M	
	Introduction of PMI-SO Integrated with Predictive and Lexicon Based	
	Features to Detect Cyberbullying in Bangla Text Using Machine	
147	Learning	
	Md. Tofael Ahmed, Maqsudur Rahman, ShafayetNur, Dr. Azm Islam	
	and Dr. Dipankar Das	
	Modeling and Simulation of Supply Chain System in Schastic	
148	Environment: A Simple Case Study for Periodic Key where Single Python	
	- 11200	
	Arun Kumar Wilshra	
	Arun Kumar Mishra	
152	Graph based data analysis in Big Data Computing Engineent: An	
152	Arun Kumar Mishra	

	Khinchi	
	- '	
139	Predicting Survivability in Oral Cancer (OC) Patients	
Diksha Sharma, NeelamGoel and Vivek Kumar Garg Particle Swarm Optimization with Weighted Extreme Lea		
158	Machine for Software Change Prediction	
130	Ruchika Malhotra, Deepti Aggarwal and PriyaGarg	
	Application of Machine Learning for Heart Disease Prediction	
174	Mohsin Qureshi and NilimaWarke	
	ESTIMATION OF REFLECTION COEFFICIENT OF QUARTER	
207	CIRCLE BREAKWATER USING ARTIFICIAL NEURAL NETWORK	
	Shankara Krishna A, Vishwanath Mane and Subba Rao	
	Hybrid CNN - LSTM for Traffic Flow Forecasting	
214	Rajalakshmi V and Ganesh Vaidyanathan S	
	TS06: Artificial Intelligence 17:30 – 18:45	
	Flood Hazard Mapping of Kuttanaad Region, Kerala	
276	JayatiVijaywargiya and Rama Rao Nidamanuri	
	A Divisive Hierarchical Clustering Algorithm to Find Clusters with	
177	Smaller Diameter to Cardinality Ratio	
	SadmanSadeedOmee and Md. Saidur Rahman	
	A conceptual framework based on conversational agents for the early	
2.12	detection of cognitive impairment	
242	Moises Ruben Pacheco Lorenzo, Sonia Maria Valladares Rodriguez,	
	Luis EulogioAnidoRifon and Manuel Jose Fernandez Iglesias	
	Multi Objectives for TCSC Placement using Self-Adaptive Firefly	
254	Algorithm	
	SelvarauRanganathan, PalanivelPanjamoorthy and EllappanVenugopal	
	Navigation App for People with Disabilities Through Store	
284	Accessibility Assessment	
	Christine Guo, Lawrence Han, Vicky Tang and Hao Tang	
• • •	Optimization of Fractional Order PID Controller(FOPID)Using Cuckoo	
298	Search The Mark State of the St	
	TarunVarshney, VikassinghBhadoria, PravinSonwane and Nitin Singh	
	TS07: Intelligent Sensor, Devices & 17:30 – 18:30 Application	
	Impact of Overall Service Quality and Technology Factors on Intention	
	to Use the Internet of Things (IoT) at Bescom	
163	Kavitha Desai, Mahalakshmi S, Sivaretinamohan R and	
	MacherlaBhagyalakshmi	
	Design of AMC based Metasurface Loaded Slot Antenna for Wideband	
186	RCS Reduction and Gain Improvement	
100	Ankit Sharma, Animesh Chandra, Deepak Kumar, HimanshuPrajapat,	
	Madan Kumar Sharma, Hridesh Kumar Verma and Aniket Cityhan	
	A Novel Hybrid ASO-NM Algorithm and Its Application of Automobile	
192	Cruise Control System	
	DavutIzci and SerdarEkinci	
197	On the use of Machine Learning for Soil Cook Tourng VikashRameshar, Wesley Doorsamy and Babu Paul	
279	Forest Fire Damage and Recovery Assessment	
1 )	Potest Fire Damage and Recovery Assessment	

	JayatiVijaywargiya and Rama Rao Nidamanuri			
	TS08: Computer Vision	17:30 – 18:30		
	A Method of Micro Pixel Similarity for Lung Cancer Diagnosis using			
111	Ada	boost		
		aw Kale		
	Application of hybrid of ACO-BP in Convolution Neural Network fo			
115		Classification		
		i Chawla ILE LOCATION DATA FOR CLASS		
141		E MONITORING		
141		Iwendia and Ezekiel Kuria		
		e Prediction using CNN		
157	, , , ,	Shaun Jacob and RupaliDeshmukh		
	Advanced identification of Alzheimer's disease from brain MRI ima			
161	using Convolution Neural Network			
101	SoniyaLalwani, Rajesh Kumar, Ne	chaRajawat, Bharat Singh Hada and		
	Mayank	Meghawat		
	TS09: Big Data Analytics 17:30 – 18:30			
		odel for Bangla-English Machine		
164		slation		
		loy, Md. Ahsan Habib, M. A. H.		
		d N. Siddique  Forecasting on crime data		
176	•	nd DrKavitha K S		
		or discovering interesting rules for		
201	Tours and Tr	ravel Company		
ManojSethi and Rajni Jindal				
		timal Bidding Strategy in Pay-as-bid		
218		nvironment		
		nd AkashSaxena		
285	Wearable fall-detection using deep embedded clustering algorit  JothiRamasamy			
	Joiniko	ини зит у		

# **INAUGURALSESSION:**





## RTU TEQIP-III Sponsored 2<sup>nd</sup> International Conference on Artificial Intelligence: Advances and Applications ICAIAA-2021-(27-28 March 2021)





Organized by: Poornima College of Engineering, Jaipur and Rajasthan Technical University, Kota in association with Soft Computing Research Society (SCRS)

Inaugural Session Saturday, March 27, 2021



Time: 12:30 pm to 01.50 pm

Venue: Online ICAIAA Conference Hall (Webex)

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S. No	Activity	Duration	Time
1.	Reporting and Registration of Delegates -On Webex & Corresponding Track links	10 Min	12.30 pm-12.40 pm
2.	Gathering of Audience in the hall	5 Min	12.40 pm-12.45 pm
3.	Arrival of Guests & Group Photograph of Dignitaries	05 Min	12.45 pm-12.50 pm
4.	Welcome of Dignitaries by the anchors & Ganesh Vandana	05 Min	12:50 pm-12:55 pm
5.	<ul> <li>Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana Audio)</li> <li>A. Prof. R. A. Gupta, Chief Patron and Hon'ble Vice-Chancellor RTU, Kota (Chief Guest)</li> <li>B. Dr. Marcin Paprzycki, Polish Academy of Science, Warsaw, Poland (Guest of honour)</li> <li>C. Dr. Dhirendra Mathur, RTU (ATU) TEQIP-III Coordinator</li> <li>D. Dr. Harish Sharma, Associate Professor, RTU Kota, Organizing Secretary ICAIAA 2021</li> <li>E. Dr. Jagdish Chandra Bansal, Associate Prof., South Asian University, New Delhi</li> <li>F. Dr. Mahendra Lalwani, Associate Prof., Department of Electrical Engineering, RTU, Kota</li> <li>G. Dr. Nilanjan Dey, Assistant Professor (Senior Grade) Department of IT, Techno India College of Technology, Kolkata</li> <li>H. Ar. Rahul Singhi, Director, Poornima Group</li> <li>I. Dr. Mahesh Bundele, Principal &amp; Director, PCE, General Chair ICAIAA 2021</li> <li>J. Mr. Pakaj Dhemla, Vice Principal, PCE</li> <li>K. Dr. Garima Mathur, Organizing Secretary ICAIAA 2021</li> </ul>	05 Min	12:55 pm-01:00 pm
6.	A. Felicitation of Chief Guest Prof. R. A. Gupta, Chief Patron and Hon'ble Vice- Chancellor RTU Kota, by Ar. Rahul Singhi, Director, Poomima Group B. Felicitation of Guest of Honour Dr. Marcin Paprzycki, Polish Academy of Science, Warsaw, Poland by Dr. Mahesh Bundele, Director, PCE C. Felicitation of Guest of Honour Dr. Dhirendra Mathur, RTU (ATU) TEQIP-III Coordinator by Mr. Pankaj Dhemla, Vice Principal, PCE	05 Min	01:00 pm-01:05 pm
7.	Address by General Chair ICAIAA 2021 Dr. Mahesh Bundele, Director, PCE	05 Min	01.05 pm-01.10 pm
8.	About the Conference by Dr. Mahendra Lalwani, Associate Prof., Department of Electrical Engineering, RTU, Kota	05 Min	01.10 pm-01.15 pm
9.	Introduction & Address by Ar. Rahul Singhi, Director, Poornima Group.	05 Min	01.15 pm-01.20 pm
10.	Introduction & Address by Dr. Jagdish Chandra Bansal, Associate Prof., South Asian University New Delhi.	05 Min	01.20 pm-01.25 pm
11.	Introduction of Guest of Honour Dr. Marcin Paprzycki, Polish Academy of Science, Warsaw, Poland - Keynote Address	10 Min	01.25 pm-01.35 pm
12.	Introduction & Address by Chief Guest Prof. R. A. Gupta, Chief Patron and Hon'ble Vice-Chancellor RTU Kota	10 Min	01.35 pm-01.45 pm
13.	Vote of Thanks by Dr. Garima Mathur, Organizing Secretary ICAIAA 2021	03 Min	01.45 pm-01.48 pm
14.	Group Photograph -Virtual	02 Min	01.48 pm-01.50 pm

### **KEYNOTESPEAKERS:**

Systems Research Institute, Polish Academy Systems.

NilanjanDey,

JIS University, Kolkata, India.

· Montaz Ali,

University of the Witwatersrand, Johannesburg, South Africa

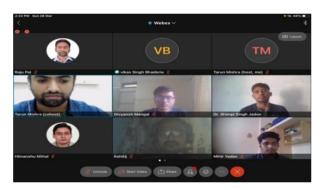
· PrashantJamwal,

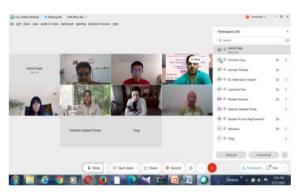
Nazarbayev University (NU), Astana, Kazakhstan

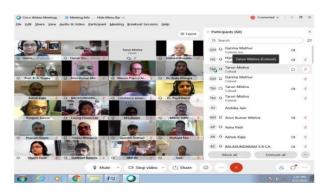
# **GLIMPSESOFPRESENTATIONS:**

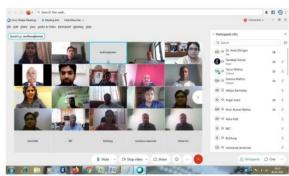




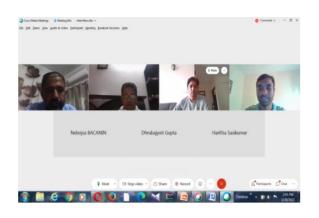














**Time**:3:45 pmto 4:30

# **VALEDICTORYSESSION:**

# **CONFERENCE REPORT**

ICAIAA-2021(Mar 27-28, 2021)

Valedictory Function

DAY 2 Sunday- 28th March 2021

Time: 3:45PM- 4:30PM

Valedictory Session

**Venue:**OnlineICAIAAConferenceHall(Webex) pm

S.N o	Activity	Durati on	Time	
1.	ArrivalofParticipants-OnWebex	10 Min	03:30pm- 03:45pm	
2.	Arrival of Dignitaries  A. Dr. PrashantJamwal, Nazarbayev University (NU), Astana, Kazakhstan – Chief Guest  B. Dr.HarishSharma, AssociateProfessor, RTUKota, Organ izingSecretaryICAIAA2021 C. Dr. MukeshSarawat, Joint Secretary SCRS D. Dr.MaheshBundele, Principal&Director, PCE, GeneralChair ICAIAA2021 E. Mr.PakajDhemla, VicePrincipal, PCE F. Dr.GarimaMathur, Organizing SecretaryICAIAA2021	03 Min	03:45pm- 03:48pm	
3	Felicitation of Chief Guest Dr. PrashantJamwal, Nazarbayev University (NU), Astana, Kazakhstan, by Dr.MaheshBundele, Principal&Director,PCE,GeneralChair ICAIAA2021	02 Min	03:48pm-03:50 pm	
4	Report on Conference by <b>Dr.GarimaMathur,</b> Organizing SecretaryICAIAA2021	05 Min	03:50pm-03:55 pm	
5.	Participants Feedback online	05 Min	03:55pm-04:00 pm	
6.	Address by <b>Dr.MaheshBundele</b> , Principal&Director,PCE,GeneralChair ICAIAA2021	05 Min	02 00pm-04:05	ele eh.l
7.		101/1111	nesh Bund NESME OBE OBE OBE OBE OBE OBE OBE OB	A
8.	Guest  Award Announcement by By Prof. PrashantJamwal,  Nazarbayev University (NU), Astana, Kazakhstan, Chief  Guest	05 Min	54:15pm-04:20 pm	

Ī	9.	Vote of Thanks by Dr. AnilaDhingra, Associate Professor, Poornima College of Engineering, Jaipur	05 Min	04:20pm-04:25 pm
	10.	GroupPhotograph-Virtual	05 Min	04:25pm-04:30 pm





Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

### A Report on 2-day International Conference

TITLE AND DURATION: 'Sustainable Energy, Environment and Green Technologies

(ICSEEGT 2021)'on 05-06 March 2021

**SPONSORS: NIL** 

**SUPPORTERS: NIL** 

**ORGANIZING PARTNERS: NIL** 

PUBLISHER(S): IOP Conference Series: Earth and Environmental Science (EES) (Online

ISSN: 1755-1315, Print ISSN:1755-1307).

#### ISBN / PART NO. / INDEXING AGENCY:

Website: <a href="https://iopscience.iop.org/journal/1755-1315">https://iopscience.iop.org/journal/1755-1315</a>

Scope: <a href="https://iopscience.iop.org/journal/1755-1315/page/scope">https://iopscience.iop.org/journal/1755-1315/page/scope</a> Indexing: <a href="https://www.scopus.com/sourceid/19900195068">https://www.scopus.com/sourceid/19900195068</a>

#### **THEMES / TRACKS:**

### TRACK 1: SUSTAINABLE ENERGY

- Energy efficiency and rationale use of energy
- Renewable Energy
- Sustainable Technologies for Energy Conservation
- Heating, Ventilation and Air Conditioning (HVAC)
- Computational Models for Sustainable Development
- Energy Efficient Designs and Standards
- Renewable Energy Supply and Technologies
- Energy Management, Policies, Economics and Sustainability
- Smart Grid / Smart City / Smart Mobility
- Energy and the Environment
- Energy Management Systems
- Sustainable Solutions in Developing Countries
- Sustainable Materials
- Sustainable Development Goals (SDGs) and Green Energy
- · Energy and Health

### TRACK 2: ENVIRONMENT

- Environmental Chemistry and Pollution Control
- Renewable Energy (Wind, Solar, Hydro, Geothermal)
- · Bio-energy, Biomass and Bio-fuels
- · Environmental Risk management
- Waste Management and Waste Water Treatment
- · Low Carbon Economy and Society
- · Global Warming
- · Resource and Environment
- Automation Applications in Environmental Technology
- Greenhouse Gas Mitigation and Climate Change
- Water Pollution and Control
- · Solid Waste Valorization

### TRACK 3: GREEN TECHNOLOGIES

- Energy Saving Technologies and Systems
- · Green Technologies in Information
- · Green Energy in Transport
- Sustainable Cities, Architecture and Green Buildings
- Green Nanotechnology
- Greening Urbanization and Urban Settlements
- Green Energy Trade for Economic Development
- Green Design, Products and Manufacturing Processes
- Green Power Systems and Mart Grids
- Emerging and Navy Red Great Energy Technical Services and Techn

#### **OBJECTIVES:**

The Conference on Sustainable Energy, Environment and Green Technologies (ICSEEGT-2021) organized by the department of Civil and Mechanical Engineering along with Applied Sciences, Poornima College of Engineering, Jaipur, India was the first International Conference on this theme. We are happy to that we could organize it with the publication support of SCOPUS indexed IOP Conference series Earth and Environmental Engineering. The objective of this conference was to bring together researchers from academia, government agencies, research laboratories and the corporate sector to present their research works carried out in sustainable energy, environment and green technologies.

#### **EXPECTED OUTCOMES:**

The conference will strengthen contacts and foster cooperation among accelerator-based science and application researchers, accelerator manufacturers and the coordinators of academic programs in the accelerator sciences, leading to a comprehensive review of the status of accelerator-based research and applications. The conference is expected to generate ideas that will form the basis of future ICSEEGT-2021 programs in the area of research and applications using accelerator technologies.

#### BROCHURE / POSTER / LEAFLET / FLYER:





### **PROGRAM OUTLINE:**

### DAY-I: Friday, March 5, 2021

TIME (IST)	EVENT		
11:30AM-	Virtual Registration of Delegates		
11:45AM			
11:45AM-	Inaugural Function		
12:30PM	Session Link (Zoom): https://tinyurl.com/au7k8as2		
	Keynote session-I		
12:30PM-	Session Link (Zoom): https://tinyurl.com/au7k8as2		
12:30FM- 13:15PM	Title: From Idea to innovation: The Shit Killer		
13:15PW	Speaker: Dr. Damir Brdanovic, Professor of Sanitary Engineering, IHE		
	Delft Institute for Water Education, The Netherlands		
13:15PM-	Session Break		
13:30PM	dele		
13:30PM -	Technical Session-I: Emerging and Advance Technical Session Link (Google Meet):https://tinyurl.co		
	Session Link (Google Meet): https://tinyurl.co@Session1t		
15:30PM	Session Chair: Dr. Salifu Tahiru Moderator:		
	Azeko, Tamale Technical Poorning Engineering,		

	University, Ghana	Jaipur, Rajasthan India	
	Technical Session-II: Sustainable Energy		
	Session Link (Google Meet): https://d Session Chair: Dr. T.N. Verma,		
	Maulana Azad National Institute of		
	Technology Bhopal, India	Janorn Rajas Challe gradie E	
15:30PM -	Session Break		
15:45PM			
	Keynote session-II		
	Session Link (Zoom): https://tinyurl.	com/au7k8as2	
15:45PM-	Title: Advances in Materials for Green Energy Storage technologies		
16:45PM	<b>Speaker: Prof. M.V. Reddy,</b> Institute of Research Hydro-Québec, Centre of		
	Excellence in Transportation Electric	fication and Energy Storage (CETEES),	
	Hydro-Québec, Canada		

# DAY-II: Saturday, March 6, 2021

TIME (IST)	EVENT			
	Technical Session-III: Green Technologies			
	Session Link (Google Meet): https://tinyurl.com/session3t			
	Session Chair: Dr. Pankaj			
	<b>Gupta,</b> Malaviya National Institute	E E		
40.0043.5	of Technology Jaipur, India Jaipur, Rajasthan India			
10:00AM -				
12:00 PM	Technical Session-IV: Environment	•		
	Session Link (Google Meet):https://d			
	Session Chair: Dr. Pradeep			
		Poornima College of Engineering,		
	of Technology, Meghalaya, India	Jaipur, Rajasthan India		
12:00PM -	Session	on Break		
12:15PM				
	Keynote session-III			
	Session Link (Zoom): https://tinyurl.com/au7k8as2			
12:15PM -	00,	ovative Nano-materials and Eco		
13:15PM	Sustainability			
	_	ter: Dr. Alka Sharma, Centre for Advanced Studies, University of		
13:15PM-	Rajasthan, Jaipur, Rajasthan, India	on Break		
13:30PM	Sessu	on Dreak		
13.301 141	Keynote session-IV			
13:30PM -	Session Link (Zoom):https://tinyurl.	com/au7k8as2		
14:30PM	Title: Green Energy Technologies f			
	Speaker: Prof. K. S. Reddy, Indian	Institute of Te Mangs, and India		
14:30PM-	Speaker: Prof. K. S. Reddy, Indian  Session	on Break Director Engineering		
16:00PM	Poornima College Hullong			
		131-0. Shapura.		

16:00PM-	Valedictory Function
17:00PM	Session Link (Zoom): https://tinyurl.com/au7k8as2

# **PROGRAM SCHEDULE:**

# PROGRAMME SCHEDULE (DAY-I)

# DAY-I: Friday, March 5, 2021

TIME (IST)	EVENT				
11:30AM – 11:45AM	Virtual registration of delegates				
11:45AM – 12:30PM	Inaugural Function Session Link (Zoom): https://tinyurl.com/au7k8as2				
12:30PM -	Keynote session-I Session Link (Zoom): <a href="https://tinyurl.com/au7k8as2">https://tinyurl.com/au7k8as2</a> Title: From Idea to innovation: The Shit Killer Speaker: Dr. Damir Brdanovic, Professor of Sanitary Engineering, IHE Delft Institute for Water Education, The Netherlands				
13:15PM					
13:15PM -	Session Break				
13:30PM		Session.	Drom.		
		Session-I: Emerging and A ak (Google Meet): <u>https://ti</u>	G		
	Session Lin	in (Googie Meet). <u>maps.//te</u>	Moderator: Dr. Payal Bansal,		
	Session Ch	nair: Dr. Salifu Tahiru	Poornima College of		
	Azeko,	Tamale Technical	Engineering, Jaipur, Rajasthan		
13:30PM -	University,	Ghana	India		
15:30PM					
	Time Paper ID Title				
	Impact of particulate matter on				
	pre and post COVID locked				
	13:45 3 down in the wards of				
	13:45-	13:45 3 down in the wards of Jainur.  13:45- ICSEEGT2021_T2_08 Suitability of			

40		
13:55	9	groundwater for irrigation in
		some villages of Sirsa district,
		Haryana (India)
		Process optimization for
13:55-	ICSEEGT2021_T2_09	biodiesel production from highly
14:05	0	acidic hibiscus cannabinus
		(Deccan hemp) oil
		Effect of expanded graphite on
14:05-	ICSEEGT2021_T1_09	nitrate based phase change
14:15	2	materials being used in thermal
		energy storage systems
14:15-	ICSEEGT2021_T1_09	A sustainability index tool to
14:25	4	measure environmental
14.23	7	performance of an Indian city
		Impact of cleaner production and
14:25-	ICSEEGT2021_T1_10	environmental management
14:35	1	systems on sustainability: the
		moderating role of industry 4.0
14:35-	ICSEEGT2021_T2_10	Environmental carbon footprint
14:45	6	assessment of a LHB railway
11.13	Ü	coach.
14:45-	ICSEEGT2021_T2_10	Life cycle analysis for the
14:55	8	production of urea through
14.33	8	Syngas.
14:55-	ICSEEGT2021_T1_11	Building and performance
15:05	0	evaluation of novel solar cooking
13.03	U	system in Gujarat, India
_		Experimental Investigation of
15:05-	ICSEEGT2021_T2_11	Light Weight Concrete using
15:15	3	Sintered Fly Ash Aggregates
		Strategies for reduction of
15:15-	ICSEEGT2021_T1_10	harmtu Mane She fMin diesel
15:25	0	engines College of Engineering
	1	Poor Stapura, JAII

	Technical Session-II: Sustainable Energy				
			9.		
		k (Google Meet): https://tir			
		nair: Dr. T.N. Verma,	Moderator: Mr. Vikas Sharma,		
	Maulana Azad National Institute of		Poornima College of		
	Technology	Bhopal, India	Engineering, Jaipur, Rajasthan		
			India		
	Time	Paper ID	Title		
			Measurement of Power in		
	13:35-	ICSEEGT2021_T1_01	Distribution System using		
	13:45	4	DTCWT based signal processing		
			technique		
	13:45-	ICSEEGT2021_T1_01	Fabrication of pure Aluminium		
	13:55	6	reinforced Graphene composite		
	13.33	U	for heat sink applications		
			Women and social sustainability:		
13:30PM –	13:55-	ICSEEGT2021_T1_03	A critical parametric evaluation		
15:30PM	14:05	0	of urban settings in developing		
			countries.		
	14:05-	ICSEEGT2021_T1_03	A Multivariate Analysis of		
14:15		5	Factors influencing Green Energy		
			Change in fresh and rheological		
	14:15-	ICSEEGT2021_T1_04	properties of mortar and concrete		
	14:25	9	prepared using red mud - A		
			review		
	14:25-	ICSEEGT2021_T1_05	Sustainable production of		
	14:35	5	concrete using coir fibres		
			A critical study to assess the		
	14:35-	ICSEEGT2021_T1_05	hurdles in adoption of sustainable		
	14:45	6	walling materials in construction		
			industry		
	14.45	ICCEPCE CEROOA EL OS	CFD modifying and sund noof		
	14:45-	ICSEEGT2021_T1_06	an Disdirect forcetor engineering		
	14:55	3	Solar mima College of Institutional Area		
			131-0 Stapula		

	14:55- 15:05	ICSEEGT2021_T1_07 5	R&D Management as a Driver for Sustainable Agricultural Innovation and Adoption: Evidence from India		
	15:05- 15:15	ICSEEGT2021_T1_09 6	Influence of coco peat powder on the solar still productivity: An exergo-economic study		
15:30PM – 15:45PM	TEA/COFFEE BREAK				
	Keynote session-II				
	Session Line	k (Zoom):https://tinyurl.co	om/au7k8as2		
15:45PM -	Title: Advances in Materials for Green Energy Storage technologies				
16:45PM	Speaker: <b>Prof. M. V. Reddy</b> , Institute of Research Hydro-Québec,				
	Centre of Excellence in Transportation Electrification and Energy				
	Storage (CE	orage (CETEES), Hydro-Québec, Canada			

# PROGRAMME SCHEDULE (DAY-II)

# DAY-II: Saturday, March 6, 2021

TIME (IST)	EVENT			
	Technical Session-III: Green Technologies			
	Session Link (Google Meet): https://tinyurl.com/session3t			
		nair: Dr. Pankaj Gupta,	Moderator: Dr. Payal	
	Malaviya	National Institute of	Bansal, Poornima College of	
	Technology	Jaipur, India	Engineering, Jaipur, Rajasthan	
			India	
	Time	Paper ID	Title	
10:00AM -	10:05- 10:15	ICSEEGT2021_T3_012	Review and Assessment of Factors Associated with Green Building Rating Systems	
10:00AW - 12:00 PM	10:15- 10:25	ICSEEGT2021_T3_022	Retrieving crairal pattern of urban vising state in an urban ecosystem with a constant in Lauge	
	10:25-	ICSEEGT2021_T3_031	Impact of aspect ratio of floor	

		T	Τ .
	10:35		plan on the energy performance of office rooms in New Delhi, India
	10:35- 10:45	ICSEEGT2021_T2_033	Assessment of Green Practices for Sustainable Development for the Automotive Sector
	10:45- 10:55	ICSEEGT2021_T3_034	Selection of Green Supplier in Automotive Industry: An Expert Choice Methodology
	10:55- 11:05	ICSEEGT2021_T3_046	Effect of Nano particle based anti-stripping agent on moisture induced damage for bituminous concrete mixes
	11:05- 11:15	ICSEEGT2021_T3_048	Composting: A better alternative of chemical fertilizer
	11:15- 11:25	ICSEEGT2021_T2_083	Study of Stress-Strain Behaviour in Soil Nail Wall Using Flexible Facing
	11:25- 11:35	ICSEEGT2021_T3_102	Life cycle based greenhouse gas footprint assessment of a Smartphone.
	11:35- 11:45   ICSEEGT2021_T3_112   s		Technical evaluation of sustainable cement containing fly ash and carbide lime sludge
		Session-IV: Environment k (Google Meet): <u>https://tiny</u>	url.com/session4t
	Session Lin Session Ch Gautam,		Moderator: Mr. Vikas Sharma, Poornima College of Engineering, Jaipur, Rajasthan
	Session Lin Session Ch Gautam,	k (Google Meet): https://tinyo air: Dr. Pradeep Kumar National Institute of	Moderator: Mr. Vikas Sharma, Poornima College of
	Session Lin Session Ch Gautam, Technology	k (Google Meet): https://tiny air: Dr. Pradeep Kumar National Institute of , Meghalaya, India	Moderator: Mr. Vikas Sharma, Poornima College of Engineering, Jaipur, Rajasthan India
10:00AM - 12:00 PM	Session Lin Session Ch Gautam, Technology Time	k (Google Meet): https://tinyonair: Dr. Pradeep Kumar National Institute of , Meghalaya, India Paper ID	Moderator: Mr. Vikas Sharma, Poornima College of Engineering, Jaipur, Rajasthan India  Title  Suitable sites identification for solid waste disposal using Geographic Information System and Analytical Hierarchy Process method in Debark town, north-western
	Session Lin Session Ch Gautam, Technology Time  10:05- 10:15	k (Google Meet): https://tinyonair: Dr. Pradeep Kumar National Institute of , Meghalaya, India Paper ID  ICSEEGT2021_T2_024	Moderator: Mr. Vikas Sharma, Poornima College of Engineering, Jaipur, Rajasthan India  Title  Suitable sites identification for solid waste disposal using Geographic Information System and Analytical Hierarchy Process method in Debark town, north-western Ethiopia  Don't Transfer Waste, Transform waste: A Sustainable Approach Towards Zero Waste Events Initiative During Hockey World Cup in

			11 6
			unit cells for miniaturization
			and multiband of microstrip
			patch antenna at 2.4 ghz
			frequency  Frequency
	10:45-		Faecal sludge management in urban environment, Omni
	10:45-	ICSEEGT2021_T2_065	Processor an innovative
	10.55		technology
			Developing and Implementing
			Environment Management
	10:55-	ICSEEGT2021_T2_077	Practices in Small & Medium
	11:05		Size Manufacturing
			Companies in India
	11:05-	ICCEPCE CEROOAL FOLOOF	Building a Low Carbon Indian
	11:15	ICSEEGT2021_T2_087	Economy
			Building Resilient Future:
	11:15-	ICSEEGT2021_T2_091	Information Technology and
	11:25	ICSLEG12021_12_071	Disaster Management. A
			Malaysian Perspective
			A Portable Water Pollution
	11:25-	ICSEEGT2021_T2_104	Monitoring Device for Smart
	11:35		City based on Internet of
			Things (IoT) Environmental impact
	11:35-	ICSEECT2021 T2 105	assessment of coal gasification
		1 IL SEELTI /U/1 I/ IUS	
	11:45	ICSEEGT2021_T2_105	
12:00PM -	11:45		in hydrogen production.
	11:45	Session Bi	in hydrogen production.
12:00PM - 12:15PM		Session Br	in hydrogen production.
	Keynote se	Session Bi	in hydrogen production.
	Keynote se	Session Br	in hydrogen production.
	Keynote se	Session Br ssion-III k (Zoom):https://tinyurl.com	in hydrogen production.
12:15PM -	Keynote session Lin Title: Gre	Session Brossion-III  k (Zoom): https://tinyurl.com een technology, Innovati	in hydrogen production.  reak  n/au7k8as2
12:15PM	Keynote services Session Line Title: Green Sustainabile	Session Brossion-III  k (Zoom): https://tinyurl.com een technology, Innovati	in hydrogen production.  reak  n/au7k8as2  ve Nano-materials and Eco
12:15PM -	Keynote services Session Line Title: Green Sustainabile	Session Brossion-III  k (Zoom): https://tinyurl.com een technology, Innovati	in hydrogen production.  reak  n/au7k8as2
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12:15PM - 12:15PM - 13:15PM	Keynote ser Session Lin Title: Gre Sustainabil Speaker: D	Session Brown Br	in hydrogen production.  reak  n/au7k8as2  ve Nano-materials and Eco  Advanced Studies, University of
12:15PM - 12:15PM - 13:15PM - 13:15PM- 13:30PM	Keynote ser  Session Lin  Title: Gre  Sustainabil  Speaker: D  Rajasthan, J	Session Brown Br	in hydrogen production.  reak  n/au7k8as2  ve Nano-materials and Eco  Advanced Studies, University of  reak
12:15PM - 12:15PM - 13:15PM	Keynote ser  Session Lin  Title: Gre  Sustainabil  Speaker: D  Rajasthan, J  Keynote ser  Session Lin	Session Brown Session Brown Session Brown Session Service of the second Second Session Brown Session Brown Session Service of the session Brown Session Service of the session Service of the session Service of the session Service of the session Service of the session Service of the session Service of the session Service of the session Service of the session Service of the session Service of the session Service of the session Service of the session Service of the session Service of the service of t	in hydrogen production.  reak  n/au7k8as2  ve Nano-materials and Eco  Advanced Studies, University of  reak  n/au7k8as2
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12:15PM - 12:15PM - 13:15PM - 13:30PM - 14:30PM	Keynote ser Session Lin Title: Gre Sustainabil Speaker: D Rajasthan, J  Keynote ser Session Lin Title: Green Speaker: P	Session Brown Session Brown Session Brown Seen technology, Innovation ity  Or. Alka Sharma, Centre for Session Brown Session Brown Session Brown Session Sessi	in hydrogen production.  Teak  In/au7k8as2  Ive Nano-materials and Eco  Advanced Studies, University of  Teak  In/au7k8as2  Sustainable Development  Ititute of Technology Madras

16:00PM-	Valedictory Function
17:00PM	Session Link (Zoom): https://tinyurl.com/au7k8as2

### **INAUGURAL SESSION:**

### INAUGURAL SESSION Q-SHEET

Friday, March 5, 2021 Time: 11:30 AM to 12.30PM (IST) Joining Link (Zoom): <a href="https://tinyurl.com/au7k8as2">https://tinyurl.com/au7k8as2</a>

Anchors: Kalpana Sharma & Kuldeep Sharma

S. No.	Activity	Duration	Time
1	Reporting and registration of delegates	10 Min	11:30AM-
			11:40AM
2	Gathering of audience in the virtual hall	05 Min	11:40AM-
			11:45AM
3	Arrival of guests & dignitaries-virtual	03 Min	11.45AM-
			11.48AM
	Welcome of Dignitaries		
	• <b>Dr. Damir Brdanovic,</b> Professor of Sanitary		
	Engineering, IHE Delft Institute for Water		
	Education, The Netherlands- <b>Chief Guest</b>		
	• Mr. Suneel Rajavaram, Senior Global WASH		
	Advisor, The Centre for Affordable Water and		
	Sanitation Technology, Calgary, Albreta, Canada-		
	Guest of Honour		
	• Dr. L. M. Das, Former Professor, Indian Institute of	03 Min	11:48AM-
4	Technology, Delhi, India-Guest of Honour	US IVIIII	11:51AM
	• Ar. Rahul Singhi, Director, Poornima Group, Jaipur,		
	India		
	• Dr. Mahesh Bundele, Director and Principal, PCE,		
	Jaipur, India, General Chair, ICSEEGT 2021		
	• Sh. Pankaj Dhemla, Vice Principal, PCE, Jaipur, India		dele
	Dr. Rekha Nair, Convener, ICSEEGT 2021	Mahes	n Bundele B.E., M.E., Ph.D. B.E., M.E., Ph.D. B.E. M.E. M.E., Ph.D. B.E. M.E. M.E., Ph.D. B.E. M.E. M.E. M.E. M.E. B.E. M.E. M.E. M.E. M.E. M.E. M.E. B.E. M.E. M.E. M.E. M.E. M.E. M.E. M.E.
	Dr. Raj Kumar Satankar, Convener, ICSEEGT 2021	Dire Colle	ne of Engineering
	<ul> <li>Dr. Raj Kumar Satankar, Convener, ICSEEGT 2021</li> <li>Dr. Harshwardhan Singh Chouhan, Convener, ICSEEGT 2021</li> </ul>	Slapur	ALAINA

	ICCEPCT 2024		
	ICSEEGT 2021		
	Dr. Narayan Lal Jain, Professor& Head, Mechanical		
	Engineering, PCE, Jaipur, India		
	• Sh. Balwan Sheshma, Head, Civil Engineering, PCE,		
	Jaipur, India		
5	Request the dignitaries for lighting of lamp (Parallel	03 Min	11:51AM-
J	Saraswati Vandana)		11:54AM
	• Felicitation of Chief Guest <b>Dr. Damir Brdanovic,</b>		
	Professor of Sanitary Engineering, IHE Delft		
	Institute for Water Education The Netherlands,		
	The Netherlands by <b>Dr. Mahesh Bundele</b> , Director		
	and Principal, PCE, Jaipur, India, General Chair,		
	ICSEEGT 2021		
	• Felicitation of Guest of Honour <b>Dr. L. M. Das</b> ,		44 -44.
6	Former Professor, Indian Institute of Technology,	03 Min	11:54AM-
	Delhi, India, by <b>Ar. Rahul Singhi</b> , Director,		11:58AM
	Poornima Group, Jaipur, India		
	• Felicitation of Guest of Honour <b>Mr. Suneel</b>		
	Rajavaram, Senior Global WASH Advisor, The		
	Centre for Affordable Water and Sanitation		
	Technology, Calgary, Albreta, Canada, by <b>Sh.</b>		
	Pankaj Dhemla, Vice Principal, PCE, Jaipur, India		
	out the conference by <b>Dr. Raj Kumar Satankar</b> ,	00.14	11:58AM-
7	Convener, ICSEEGT 2021	02 Min	12:00PM
	Welcome address by <b>Dr. Mahesh Bundele</b> , Director	05 Min	12:00PM-
8	and Principal, PCE, Jaipur, India & General Chair, ICSEEGT 2021	US IVIIII	12:05PM
0	Address by <b>Ar. Rahul Singhi</b> , Director, Poornima	05 Min	12:05PM-
9	Group, Jaipur, India	05 141111	12:10PM
	Address by Guest of Honour Mr. Suneel Rajavaram,		
10	Senior Global WASH Advisor, The Centre for affordable	101000	2:10 ele
10	water and Sanitation Technology, Calgary, Albreta	Dr. Mahesh & ME ME	
	Canada	ornima Colle	hetitutional Albura
	<u> </u>	Sleer Stapun	

11	Address by Guest of Honour <b>Dr. L. M. Das,</b> Former	05 Min	12:15PM-
	Professor, Indian Institute of Technology, Delhi, India		12:20PM
	Inaugural Address by Chief Guest of the Program <b>Dr.</b>		12:20PM-
12	Damir Brdanovic, Professor of Sanitary Engineering, IHE Delft Institute for Water Education The	10 Min	12:30PM
	Netherlands		
	te of Thanks by <b>Dr. Harshwardhan Singh Chouhan,</b>	03 Min	12:20PM-
13	Convener, ICSEEGT 2021	OS IVIIII	12:23PM
4.4	Group Photograph -Virtual	03 Min	12:23PM-
14	Group i notogrupii virtuui	03 WIIII	12:25PM

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Govt. Engineering College Ujjain, India

Dr. Sulochana Wadhwani,

MITS Gwalior, India

Dr. Nitin Saxena,

Jabalpur Engineering College, Jabalpur, India

Dr. Himanshu Choudhary,

Manipal University, Jaipur, India

Dr. Anil Saroliya,

Mody University, Laxmangarh, India

Dr. B. K. Panigrahi,

IIT Delhi, India

Dr. Rahul Raj Choudhary,

Govt. Engineering College Bikaner, India

Dr. Mahesh Bundele B.E. M.E., Ph.D. Director Engineering Poornima College of Engineering ISI-6. EliCO Institutional Area ISI-6. EliCO Institutional Area **Registration Committee:** 

Dr. Meenakshi Nawal,

Department of Computer Engineering, PCE, India

Dr. Payal Bansal,

Department of Electronics & Communication Engineering, PCE, India

Dr. Pallavi Mishra,

Department of Applied Sciences, PCE, India

Mayank Sharma,

Department of Electrical Engineering, PCE, India

Manoj Sharma,

Department of Mechanical Engineering, PCE, India

Kalpana Sharma

Department of Applied Sciences, PCE, India

Kuldip Sharma,

Department of Applied Sciences, PCE, India

Ankit Singh Beniwal,

Department of Civil Engineering, PCE, India

Jitendra Kumar

Department of Civil Engineering, PCE, India

### **KEYNOTE SPEAKERS:**

TITLE OF THE TALK	From Idea to innovation: The sh	it killer
SPEAKER:1	Dr. DamirBrdanovic	
	Professor of Sanitary Engineering, IHE	
	Delft Institute for Water Education The	100
	Netherlands	
	BRIEF BIO SKETCH	

Abstract: Solutions for effective and sustainable faecal sludge management (SM) represent a significant global need. Tremendous amounts of faecal sludge are reduced did as a daily basis from onsite sanitation: 2.7 billion people world with are seed by onsite sanitation technologies and that number is expected to grow to 5 billion by onsite presents a global challenge. A new technological concept for the sanitation of

excreta (faeces and urine) has been developed by IHE Delft and Tehnobirod.o.o. The technology makes use of microwave generators that are part of a specially designed unit that can convert pathogenic human waste into clean water and inert dry fertilizer. The concept has been successfully tested in the Netherlands, Slovenia, Kenya, and a pilot demonstration unit was successfully evaluated in the Jordan Valley in Jordan under a refugee camp context. This presentation describes the process of turning the initial idea to invention, and further, to innovation.

	Advances in Materials for Green Ene	ergy Storage
TITLE OF THE TALK	technologies	
SPEAKER:2	Prof. M. V. Reddy	
	Professor, Institute of Research Hydro-	
	Québec, Centre of Excellence in	
	Transportation Electrification and Energy	
	Storage (CETEES), Hydro-Québec,	
	Canada	
	BRIEF BIO SKETCH	

**Profile:** Dr. M.V. Reddy, doctorate in the area of Materials Science from University of Bordeaux 1, ICMCB-CNRS/ENSCPB, and France, is currently working as a Senior Researcher (level3) at Institute of Research Hydro-Québec, Centre of Excellence in Transportation Electrification and Energy Storage, Hydro-Québec, Montreal, Canada. He ranked no 1 highly cited researchers in Hydro Quebec (source: Scopus). Previously (from July 2003 to May 2019), he worked at National University of Singapore (NUS) at the Department of Materials Science and Engineering, Chemistry and Physics. For the last 20 years, he has been working on Materials for Energy Storage(cathodes, anodes, super capacitors and solid electrolytes), solar cells, electro catalysis and photo catalysis, including novel methods of synthesis ex: Molten salt method (top1 publication list (source: Scopus) and evaluation of functional properties of materials. He has published around 200 papers in various international journals. He conducted several workshops related to functional materials and Energy storage& Conversion and delivered 100 (Plenary (12), Keynote (12), Invited talks (62) and 18 contributed talks) at various conferences and conducted few workshops on Battery materials fundamentals, synthesis, and characterization techniques. Recently he selected for prestigious 2021 Battery Materials electrochemistry award from the Electrochemical Society of India, Indian Institute of Science (IISc), Bangalore, India(7th Prof. S.M. Mayanna Memorial Lecture). Recently he has been Invited as a honary Adjunct Professor Department of Mining and Materials Engineering McGill Daivers in Europe a speaker in various Universities in India, Malaysia, Indonesi Curope, USA 1997 And 19 Iran, Iraq, Morocco, and Africa. He also had given popular Morocco, and Engineering outreach talks to college and high school stude. The world. He is

serving as editorial advisory board member in "Materials Research Bulletin and Journal of Energy Storage" (Elsevier) several other open access Journals (Materials, Energies and Molecules, MDPI) and Regional editor: Nanoscience & Nanotechnology-ASIA.

Abstract: In my talk, i will discuss various materials manufacturing, physical characterizations techniques, fundamentals and applications in area of Energy storage applications. Various chemical and physical process for nano and submicron sized materials and its characterization techniques like Rietveld refined X-ray diffraction, Neutron diffraction, X-ray absorption spectroscopy, X-ray photo electron spectroscopy, Rutherford Backscattering spectrometry, Scanning and Transmission electron microscopy (SEM/TEM), Raman/IR, density and BET surface area methods will be discussed. Importance of electro analytical studies like cyclic voltammetry, galvanostatic cycling and impedance spectroscopy techniques for testing high performance evaluations, ion conduction mechanisms of energy storage materials. Finally I will discuss the challenges and opportunities for green storage technology

TITLE OF THE TALK	Green technology, Innovative Nano Sustainability	-materials and Eco
SPEAKER:3	Dr. Alka Sharma  Centre for Advanced Studies,  University of Rajasthan, Jaipur,  Rajasthan, India	dian So
	BRIEF BIO SKETCH	

**Profile**: Dr. Alka Sharma is currently, Vice Principal (Science), University Maharani College (one of the constituent colleges of University). Dr. Sharma's major areas of research interest include Corrosion Science; Bio-fabrication of Nano-composites, nano-materials and their industrial applications; innovation and designing in material science. To her credit, she has published 46 research papers of international repute. Her proclivity is to bring out some prototype(s) via innovation & designing in material science as DIC-Course Coordinator (CIMSID) [Certificate course in Innovation in Material Sciences for Inclusive Development], MHRD-Designing and Innovation Centre (DIC), CCT, University of Rajasthan, Jaipur, funded by MHRD, New Delhi.

She has published several books and is reviewer of prestigious journals in the field of corrosion and material science. She has been recipient of award & recognizion (úrrice) for Outstanding Contribution in Reviewing from the prestigious Journal Corresponde, Elsevier).

Apart from various administrative responsibilities, she has also activities as and when assigned by the resity of Rajasthan,

Jaipur.

Abstract: Nanoscience and nanotechnology is a powerful tool for host of processes in support of Sustainability and ecology conservation. Green-nanotechnology endeavors for bringing out products and processes that are safe, energy efficient and reduce waste with low net impact on the environment. Green nanotechnology is also about manufacturing processes that are economically and environmentally sustainable. Natural resources are potential source to fabricate nanomaterials which can be beneficiary tool for eco-sustainability. Nanomaterials have multifold utility in numerous sectors such as eco-sustainability, health-care, pharmaceutical, industries etc. Nano-coating materials, nano-composites, multi-material nanoparticles (doped nano-particles) etc are some of the green-nanomaterials fabricated successfully and characterized by standard tools and techniques, viz., FT-IR, UV-Visible, FL spectroscopy, SEM, EDX, AFM, QCA, XRD.

TITLE OF THE TALK	Green Energy Technologies fo Development	or Sustainable
SPEAKER:4	Prof. K. S. Reddy Professor, Indian Institute of Technology, Madras, India	
	BRIEF BIO SKETCH	-

**Profile:** Dr. K. SRINIVAS REDDY obtained his PhD from Indian Institute of Technology Delhi in Energy Studies in 1999. He then joined National Institute of Technology Warangal in June 1999, after a brief service of about 4 years at NITW, he joined IIT Madras in April 2003 as an Assistant Professor. Presently, Dr. Reddy is a Professor of Mechanical Engineering at IIT Madras and he is also an honorary professor at University of Exeter, UK. He also served as an Adjunct Professor at CEERI-CSIR, Chennai during 2014-17

Prof. Reddy is a Fellow of the National Academy of Engineering (FNAE) and he is specialist in renewable energy with special research interests on concentrating solar power, energy efficiency and environment. He has 8 patent applications and more than 280 publications of which, 151 papers in reputed international journals, including five review articles on solar energy systems and energy storage. His co-authored book on "Sustainable energy and the environment: a clean technology approach" Published by Springer and book chapters on solar energy systems are popular among energy and environment community.

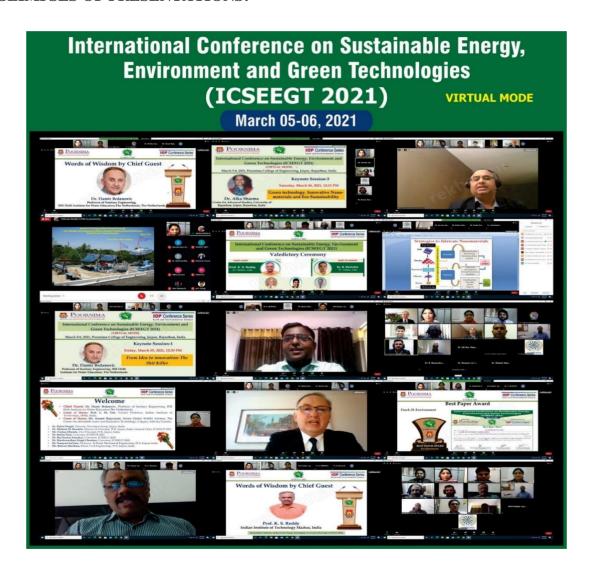
Prof. Reddy is actively involved in the implementation of solar thermal trainologies for power generation and process heat applications through the ign Development (4-D)" approach. He has executed to solar energy and energy & environment funced by various and international agencies such as DST, MNRE, AICTE, PCLIV 2013. And ICIMPACT. His work on estimation of thermal conductivity & thermo-physical properties

and characterization of engineering materials significantly benefited the industrial associates for development of energy efficient thermal insulation materials

PLENARY TALK SPEAKERS: NIL

**CONTENT DELIVERY / PRACTICAL SESSIONS: NIL** 

**GLIMPSES OF PRESENTATIONS:** 



## LIST OF PARTICIPANTS/REGISTERED/ATTENDED CANDIDATES

			o' Bundele
S. No.	Certificate no	Presenter	P.Stitute Director Engineering
1	ICSEEGT2021	Ms.	Bhartiya skill devel
1	-AU-1001	Parveen	jaipur Ngusula a a a a a a a a a a a a a a a a a a

		parihar	
2	ICSEEGT2021 -AU-1002	Ms. Manasa putrevu	Indian institute of technology bhubaneswar argul, khordha, pin - 752050, odisha, india
3	ICSEEGT2021 -AU-1003	Dr. Muralithar an jothimani	Department of geology, arba minch university, ethiopia
4	ICSEEGT2021 -AU-1004	Mr. Haresh bhupendra chodnekar	Indian institute of technology kharagpur, west bengal
5	ICSEEGT2021 -AU-1005	Dr. Rashmi kumari	National institute of technology hamirpur
6	ICSEEGT2021 -AU-1006	Mr. Ram vilas meena	Department of civil engineering, mnit jaipur, india
7	ICSEEGT2021 -AU-1007	Mr. Amanpree t tangri	Juit solan, himachal pradesh, india
8	ICSEEGT2021 -AU-1008	Dr. Sudarshan d. Kore	National institute of construction management and research (nicmar), pune, india
9	ICSEEGT2021 -AU-1009	Ms. Rupinder kaur	University business school, guru nanak dev university, amritsar, india
10	ICSEEGT2021 -AU-1010	Mr. Shubham goswami	Jaypee university of engineering and technology, guna
11	ICSEEGT2021 -AU-1011	Mr. Adwitiya patro	Deutsche gesellschaft für internationale zusammenarbeit (giz) gmbh, new delhi
12	ICSEEGT2021 -AU-1012	Ms. Asmita yadav	National institute of hamirpur,h.p.
13	ICSEEGT2021 -AU-1013	Mrs. Nameeta sharma	Arya college of engineering and it, kukas, jaipur, rajasthan, india
14	ICSEEGT2021 -AU-1014	Ms. Kirti katiyar	Jaypee university of engineering and technology, guna
15	ICSEEGT2021 -AU-1015	Dr. Hari prapan sharma	Gla university, 17km stone, nh-2, mathura- delhi road mathura, chaumuhan, uttar pradesh - india 281406
16	ICSEEGT2021 -AU-1016	Mrs. Ekta baranwal	Department of civil engineering jamia millia islamia, new delhi-11025, india
17	ICSEEGT2021 -AU-1017	Mr. Rupanshu singh	Delhi technological us control and light
18	ICSEEGT2021 -AU-1018	Ms. Kavya	College Colleg

		venu pillai	
19	ICSEEGT2021 -AU-1019	Mr. S ramana kumar joga	School of electrical engineering, kiit deemed to be university, patia, bhubaneswar-751024
20	ICSEEGT2021 -AU-1020	Dr. Anil dutt vyas	Department of civil engineering, manipal university jaipur, 303007 india
21	ICSEEGT2021 -AU-1021	Mr. Sheikh kamran abid	Universiti tun hussein onn malaysia
22	ICSEEGT2021 -AU-1022	Dr. Timothy malche	Manipal university jaipur, dehmi kalan, off jaipur-ajmer expressway, jaipur, rajasthan 303007
23	ICSEEGT2021 -AU-1023	Dr. Amol d pawar	Nicmar 25/1 n i a post office balewadi pune ms india411045
24	ICSEEGT2021 -AU-1024	Mr. Aditya joshi	Department of applied mechanics, motilal nehru national institute of technology allahabad, prayagraj, india
25	ICSEEGT2021 -AU-1025	Mr. Krishanve er singh	Gla university, mathura, uttar pradesh, india
26	ICSEEGT2021 -AU-1026	Mr. Sandeep kumar rajput	Department of applied mechanics, motilal nehru national institute of technology allahabad, prayagraj, india
27	ICSEEGT2021 -AU-1027	Dr. Pradeep kumar gautam	Nit meghalaya
28	ICSEEGT2021 -AU-1028	Dr. Dr. Kishore kumar	Gla university, mathura india
29	ICSEEGT2021 -AU-1029	Mr. Manjunat ha swamy k m	Siddaganga institute of technology, tumkur, karnataka, india, pin: 572103
30	ICSEEGT2021 -AU-1030	Dr. Lokesh vijayvargy	Jaipuria institute of management jaipur, 1- bambala institutional area, pratap nagar, sanganer, jaipur, rajasthan, india-302033
31	ICSEEGT2021 -AU-1031	Mr. Vivek singh	Department of applied mechanics, motilal nehru national institute of technology allahabad, prayagraj, india
32	ICSEEGT2021 -AU-1032	Mr. Prashant kumar	Department of applied mechanics, motilal nehru national institute of technology allahabad, prayagraj, icasa
33	ICSEEGT2021 -AU-1033	Dr. Anil dutt vyas	Manipal university is he Bunder
34	ICSEEGT2021 -AU-1034	Dr. Lokesh vijayvargy	Jaipuria institute of manage come to probability to the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institute of manage control in the bambala institute of manage control in the bambala institute of manage control in the bambala institute of manage control in the bambala institute of manage control in the bambala institute of manage control in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala institution in the bambala

35	ICSEEGT2021 -AU-1035	Mr. Akshay dhawan	Nicmar delhi ncr
36	ICSEEGT2021 -AU-1036	Ms. Priyanka	Siddaganga institute of technology, tumkuru-572103, karnataka.
37	ICSEEGT2021 -AU-1037	Mr. Parul kumar	Govt. Dungar college, bikaner
38	ICSEEGT2021 -AU-1038	Mr. Pankaj dhemla	Malviya national institute of technology, jaipur, india
39	ICSEEGT2021 -AU-1039	Dr. Vipin sharma	Sagar institute of research and technology, bhopal
40	ICSEEGT2021 -AU-1040	Mr. Mohamm ad nurul hassan reza	Multimedia university,faculty of management,persiaran multimedia,cyberjaya,selangor, malaysia
41	ICSEEGT2021 -AU-1041	Mr. Piyushku mar m. Mistri	Government engineering college, modasa, dist. Aravalli, gujarat, india
42	ICSEEGT2021 -AU-1042	Mr. Hardik saxena	India

# SAMPLE COPY CERTIFICATE

Organized by POORNIMA	March 5-6, 2021	Publicati	on Support by
COLLEGE OF ENGINEERING  Filliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA	- Aproxit		ference Series
ficate ID:	ICATE OF PRES	ENTATION	
his is to certify that the paper entitled	authored by		
pas presented by	of		
, ,	the International Conference		
reen Technologies (ICSEEGT-2021) held	during 5-6 March, 2021, a	at Poornima College o	f Engineering, Jaipur,
ajasthan, India			
		2 Aluna	0
Realing 6.			
Dr. Rekha Nair Convener, ICSEEGT 2021  Dr. Harshwardhan S Convener, ICSEEGT 2021		Kumar Satankar er, ICSEEGT 2021	Dr we ssh M Sundele

### **VALEDICTORY SESSION:**





S. No	Event	Duration	Time
1	Reporting of Delegates-On Zoom link	15 Min	16:00PM-16:15PM
2	<ul> <li>Prof. K. S. Reddy, Indian Institute of Technology Madras, India, Chief Guest</li> <li>Dr. B. Ravindra, Indian Institute of Technology Jodhpur, India-Guest of Honour</li> <li>Ar. Rahul Singhi, Director Poornima Group, Jaipur, India</li> <li>Dr. Mahesh Bundele, Director and Principal, PCE, General Chair, ICSEEGT 2021</li> <li>Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, India</li> <li>Dr. Rekha Nair, Dean Academics, PCE, Jaipur, India, Convener, ICSEEGT 2021</li> <li>Dr. Raj Kumar Satankar, Convener, ICSEEGT 2021</li> <li>Dr. Harsh Wardhan Singh Chouhan, Convener, ICSEEGT 2021</li> <li>Dr. Narayan Lal Jain, Professor &amp; Head, Mechanical Engineering Department, PCE, Jaipur, India</li> <li>Sh. Balwan Sheshma, Head, Civil Engineering Department, PCE, Jaipur, India</li> </ul>	03 Min	16:15PM-16:18PM
3	<ul> <li>Felicitation of Chief Guest, Prof. K. S. Reddy, Indian Institute of Technology Madras, India by Dr. Mahesh Bundele, Director and Principal, PCE, General Chair, ICSEEGT 2021</li> <li>Felicitation of Guest of Honour Dr. B Ravindra, IIT Jodhpur by Ar. Rahul Singhi, Director, Poornima Group, Jaipur, India</li> </ul>	02 Min	16:18PM: 16:20PM
4	Welcome Address by <b>Ar. Rahul Singhi</b> , Director Poornima Group	02 Min	16:20PM-16:22PM
5	Report by <b>Dr Rekha Nair</b> , Convener, ICSEEGT 2021	03 Min	16:22PM-16:25PM
6	Distribution of best paper Awards by Chief Guest & Guest of honour	03Min	16:25PM-16:28PM
7	Participants Feedback	05 Min	16:28PM-16:33PM
8	Address by <b>Dr. Mahesh Bundele</b> , General Chair, ICSEEGT 2021	05 Min	16:33PM-16:38PM
9	Address by Guest of Honour <b>Dr. B. Ravindra</b> , Indian Institute of Technology Jodhpur, India	05 Min	16:38PM-16:43PM
10	Address by Chief Guest Prof. K. S. Reddy, Indian Institute of Technology Madras, India	10 Min	16.43PM-1-16.53PM
11	Vote of Thanks by <b>Dr. Raj Kumar Satankar</b> , Convener, ICSEEGT 2021	r <sup>0</sup> Mah	10:B E' 10:30 PM
12	Group Photograph -Virtual	ornima C	Q. C. MAINUM

### **FEEDBACK ANALYSIS:**

### **Questions** asked

- 1. How do you rate Keynote Speaker's talk?
- 2. Technical Sessions were informative and managed well.
- 3. The organization of the conference was?
- 4. Timely Information sharing with participants, and responses from the organizers.
- 5. Knowledge sharing during the conference?



### **SWOT ANALYSIS: Nil**

## **BUDGET & ACTUALS:**

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# **CONFERENCE REPORT**

- TITLE AND DURATION: 4th IEEE International Conference on Recent Advances and Innovation in Engineering (ICRAIE-2019) held during 28-29 November 2019.
- **SPONSORS:** Technically sponsored by IEEE Computer Society Poland Section Chapter and IEEE Computational Intelligence Society.
- **SUPPORTERS:** University Tun Hussein Onn Malaysia, Intel, the University of Melbourne.
- ORGANIZING PARTNERS: ICRAIE-2019 was jointly organized by UiTM Kedah, Malaysia, IEEE Malaysia & Poornima College of Engineering, Jaipur
- · **PUBLISHER(S):**IEEE
- **ISBN/PARTNO./INDEXINGAGENCY**: Electronic ISBN: 978-1-5386-4525-3, Printon Demand (PoD) ISBN: 978-1-5386-4526-0, IEEE Xplore Digital Library.

### · THEMES/TRACKS:

- Track 1: Computer Science & Engineering / Information Technology.
- Track 2: Electronics & Communication Engineering.
- Track 3: Electrical Engineering.



### **OBJECTIVES:**

Poornima University, Poornima College of Engineering & UiTM Kedah Malaysia, IEEE Malaysia team has made an effort to make the Third International Conference ICRAIE-2019 a reality. As per the objective, it could bring together Academicians, Researchers, and Industry Experts in the areas of Computer Science & Information Technology, Electronics & Communication Engineering, and Electrical Engineering for the dissemination of original research, new innovations, and ideas on the International Platform.

### **EXPECTED OUTCOMES:**

ICRAIE 2019 was technically sponsored by IEEE Delhi Section, supported by IEEE Rajasthan Subsection and Technically Co-sponsored by ISLE, IETE, ISTE, and IEI, Poornima University IEEE Student Branch Chapters. A target of 250 papers was set in three tracks Computer Science & Information Technology, Electronics & Communication Engineering, and Electrical Engineering

# **LEARNING OUTCOMES:**

**CO1:** To appropriate agreement to promote and encourage the youth to select for Engineering education.

**CO2:** To produce quality Engineers for the bright future of our country.

CO3: Opportunity to learn, Discuss & interact with intellectuals all over the world.

### MAPPINGS WITH PO AND PSO

СО	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	_	-	-	-	_	3	-	-	-	-	-	-	-	1	1
CO2						_			0						4
002	-	-	-	-	-	-	-	-	3	-	-	-	-	-	1
CO3									3	2		1			



# BROCHURE / POSTER / LEAFLET / FLYER: FOURTH IEEE INTERNATIONAL CONFERENCE ON RECENT ADVANCES AND INNOVATIONS IN ENGINEERING (ICRAIE - 2019) IEEE CONFERENCE RECORD # 4 7 7 3 5

# **Technically Sponsored by:**





# **Co-Organizer:**



# **Supporters:**

















Organized by: UiTM Kedah, Malaysia **IEEE Malaysia &** 

Dr. Mahesh Bundele Poornima College of Engineering, Jaipar

## **RESPONSE (SUBMISSION / ACCEPTANCE / PRESENTATION):**

In ICRAIE-2019, a total of 240 reviewers across the world consented and reviewed the papers. 52 papers were accepted after a rigorous review procedure, making it very selective. 39 registered papers were presented in 13 Oral Sessions during November 28-29, 2019. A total of 160 Bachelor, Master, and Doctoral scholars and professionals attended all the sessions including registered participants and local attendees.

### **SUMMARY / CATEGORIZATION OF PARTICIPANTS:**

ICRAIE-2019 provided a stimulating environment for researchers, scientists, engineers, educators, industrial lists, and students from all over the world to discuss and present the research findings in the interest of society and the nation. The conference covered major areas of research in Electrical, Electronics, and Computer Engineering. Technical sponsor of the ICRAIE-2019 with IEEE Conference Record # 47735was IEEE Delhi Section and supported by IEEE Rajasthan Subsection and Technically Co-sponsored by ISLE, IETE, ISTE, IEI, and Poornima University IEEE Student Branch Chapters.

In ICRAIE-2019, the Easy Chair conference management system was utilized to cater to the enthusiastic response making it to around 78 received manuscripts across 9 countries. Participants from countries like the United Kingdom, Iran, Germany, and Nigeria have also presented their research. The average paper acceptance rate was 66 % whereas 50 % with reference to accepted papers were presented.

	Track1CS /IT	Track2E CE	Track3EE
Total No .of Papers Submitted	49	15	13
Total No. of Papers Accepted	32	12	8
Total No. of Papers Registered	26	10	3
Total No .of Papers Presented	26	10	3

The Honorable Dr. Mahesh Bundele, Director and Principal of Poornima College of Engineering Rajasthan, Jaipur, India accompanied by the organizing chair, Dr. Shamsul Jamel Elias, and, the conference chair II, Mrs. Siti Rafidah Muhamat Dawam, welcoming session with UiTM Kedah Branch Campus Rector, Assoc. Prof. Dr. Shaiful Annuar Khalid. The inaugural session was initiated with two parallel sessions at two different locations, 5 presentations were held at Seri Jerai Hall while 4 oral presentations were held. Big Data Lab. The guest of honor, is Associate Professor Dr. Maxim Mozgovoy from the University of Japan.

The sessions continued with a skype presentation from the honorable known from Prof. Rajkumar Buyya from the University of Melbour and Edge/Fog Computing for Big Data & Internet-of-

Things Applications".

The conference continued with a Plenary speech by Associate Professor Dr. Maxim Mozgovoy from University of Aizu Japan titled "Multiplatform Automated Software Testing: Personal Experience". Next, plenary speech was given by Dr. Mahesh Bundele, Director and Principal of Poornima College of Engineering Rajasthan, Jaipur, India, titled "Scientific Research Paper: Reading & Writing". The session proceeded with an opening ceremony by the arrival of VVIPs from UiTM Kedah Branch, Deputy Rector of Academic Affairs, Dr. Kamarudin Othman, the Deputy Rector of Student Affairs, Dr. Wan Irham Wan Ishak, the Deputy Registrar, Mr. Ismi Ridhwan Ismail, the Chief Librarian, Mrs. Azizah Khasim, and the Deputy Bursar, Mrs. Norhafizah Che Mat. The event started with the national anthem, "Negaraku" and university song, "UiTM Di Hatiku". The conference chair I, Dr. Taniza Tajuddin delivered her speech to welcome the guest, audiences and participants. The officiating speech was given by the Deputy Rector of Academic Affairs, Dr. Kamarudin Othman, followed by a gimmick and montage presentation. Dr. Kamarudin Othman accompanied by the conference chairs, later presented tokens of appreciation to plenary speakers, Associate Prof. Dr. Maxim Mozgovoy and Dr. Mahesh Bundele for their outstanding presentation.

Conference materials were initially published on USB pen drives (as Preprints) and distributed to conference participants. After the conference, full papers were submitted to the IEEE Xplore Digital Library for publishing and indexing. Moreover, the Proceedings and Communication Papers of the ICRAIE-2019 Conference (in their final version) were posted on the IEEE Explore website with a link as https:// ieeexplore.ieee.org/xpl/conhome/8703604/proceeding and DOI: 10.1109/ICRAIE47735.2019.9037647.

It should be stressed that only papers presented at the conference were published in either form (the ICRAIE conference series strictly adheres to the "IEEE No-show Policy")



## **PROGRAM OUTLINE:**

## **INAUGURAL SESSION:**

#### CONFERENCE SCHEDULE

4th International Conference and Workshops on Recent Advances and Innovations in Engineering (ICRAIE2019)
At Universiti Teknologi MARA Kedah Branch

DAY 1: Thursday (28	8th Nov 2019)
08:00am – 09:00am	Conference Preparation & Registration I
09:00am – 10:30am	Parallel Session 1  Venue 1: Big Data Lab, Grd Floor (MK10), UITM Kedah  Venue 2: Seri Jeraj Hall, UITM Kedah
10:30am – 11:00am	Refreshment
11:00pm – 12:00pm	Keynote Address by Prof. Raikumar Buxxa, University of Melbourne, Australia. {Skype Presentation Title: New Frontiers in Cloud and Edge/Fog Computing for Big Data & Internet-of-Things Applications}
12:00pm – 01:00pm	Conference Preparation & Registration II
01.00pm – 01.50pm	Lunch Break
02.00pm – 02.15pm	Arrival of Guests and Participants Arrival of VIPs
02:15pm – 02:50pm	Plenary Speaker by Assc. Prof. Maxim Mozgovov, University of Aizu, Japan Title: Multiplatform Automated Software Testing: Personal Experience
02:50pm – 03:20pm	Plenary Speaker by Dr. Mahesh <u>Bundele</u> , <u>Poornima</u> College of Engineering Rajasthan, Jaipur, India  Title: Scientific Research Paper: Reading & Writing

03:30pm - 04:30pm	OPENING CEREMON	MA.
	3.30 pm – 3.40pm	Arrival of VVIPs
	3.40 pm – 3.50 pm	Negaraku & UiTM Di Hatiku
		MC's Welcoming Speech & Dos. Recitation
	3.50 pm – 4.00 pm	Welcoming Speech of Conference Chair 1
	4.00 pm – 4.10 pm	Officiating Speech of Deputy Rector of Academic Affairs
		Gimmick & Montage
	4.30 pm – 5.00 pm	Photography session
		Refreshment

Dr. Mahesh Bundele BE. ME. Ph.D. Director Director Peornima College of Engineering ISI-6. FILICO Institutional Area





## th International Conference and Workshops on Recent Advances and Innovations in Engineering (ICRAIE 2019)





08:00am - 08:30am	Registration
08:30am – 10:00am	Parallel Session 2  Venue 1: Merbok Room (K1) at Ground Floor, UiTM Kedah  Venue 2: Mahawangsa Room (K2) at Ground Floor, UiTM Kedah  Venue 3: Jerai Room (K3) at Ground Floor, UiTM Kedah  Venue 4: Langkasuka Room (K4) at Ground Floor, UiTM Kedah
10:00am – 10:30am	Refreshment
10:30am – 11:30am	Parallel Session 3  Venue 1: Merbok Room (K1) at Ground Floor, UITM Kedah  Venue 2: Mahawangsa Room (K2) at Ground Floor, UITM Kedah  Venue 3: Jerai Room (K3) at Ground Floor, UITM Kedah  Venue 4: Langkasuka Room (K4) at Ground Floor, UITM Kedah  Venue 5: Tanjung Dawai Room (K5) at Ground Floor, UITM Kedah
11:30am – 01:00pm	CLOSING & AWARD GIVING CEREMONY Lunch
01:00pm - 02:30pm	Adjourn & Jumaat Prayer
02:30pm - 05:30pm	Conference Tour

## **KEYNOTE SPEAKERS:**

• **Prof. Rajkumar Buyya** ( Professor and Director of the Cloud Computing and Distributed systems Laboratory, University of Melbourne Australia.

Topic: New Frontiers in Cloud and Edge/Fog Computing for Big Data & Internet-of-Things Applications

• Assoc. Prof. Dr. Maxim Mozgovoy (University of Aizu, Japan)

Topic: Multiplatform Automated Software Testing: Personal Experience

• Dr. Mahesh Bundele (SMIEEE, Vice Chair, ACM Jaipur Professional Chapter,

Member STDCOM, IEEE Delhi Section, LMISTE, AMIE, MACM, Principal & Director,

Poornima College of Engineering, Jaipur)

Topic: Scientific Research Paper: Reading & Writing

# **GLIMPSES OF PRESENTATIONS:**



























# Conference Tour DAY 2 Friday - 29<sup>th</sup> November 2019

ICRAIE 2019 has also offered a fantastic Merbok River Cruise, and a visit to a historical Sungai Batu Archeological site – the oldest Southeast Asian Civilization to the participants.















# **VALEDICTORY SESSION:**

Lastly, the Conference came to an end with a Valedictory Function. Deputy Rector of Academic Affairs of University Teknologi MARA Kedah, the underlying agenda of this conference, it served as a venue to forge closer ties among the national and international participants. He took the opportunity to thank the guest of honors, the keynote and plenary speakers, the presenters, and the participants for their support of ICRAEI 2019. To borrow Winston Churchill's words "The price of greatness is responsibility" Technology is a precious gift so it is up to us how we search for the proper knowledge and care of handling it. As scholars, are we ready for this challenging task? With that note, he officiated the conference ICRAEI 2019 with the theme: "Thriving Technologies". He finally congratulated the best paper award winners, and wished all participants "Happy Conferencing and all the best".





# **List of Attendees**

AUTHORS as ATTENDEEs					
	Tra	ck 1: Computer Science Er	ngineering / Information Tec		
<u>S.No</u>	<u>ID</u>	<u>Authors</u>	<u>Paper</u>	<u>Name of</u> <u>Attendees</u>	
1.	7	Animesh Deval, Rohit Kumar, Rahul Vyas (Flytxt Mobile Solution, India)	A recommendation of right product to right customer, next best offer: a comparative study	Animesh Deval, Rohit Kumar	
2.	10	See Yuen Chark, Jian Jing Saw (Universiti Tunku Abdul Rahman, Malaysia)	Internet Of Things (IOT) Based Smart Wall Outlet	See Yuen Chark	
3.	13	Mohammed Hajjaj Mitsunori Miki and Kitsunori Shimohara (Doshisha University, Japan)	Reducing the Energy by Utilizing Distributed Luminance of the Occupancy Spaces at the Office	Mohammed Hajjaj	
4.	16	Nor Laily Hashim Yasir Salman Dawood (Universiti Utara Malaysia, Malaysia)	Review on Test Case Generation Methods using UML Statechart	Nor Laily Hashim	
5.	19	Jamal Salem Amro Rohaida Romli (Universiti Utara Malaysia, Malaysia)	Investigation on the Learning Programming Techniques via Mobile Learning Application	Rohaida Romli	
6.	69	Siti Azreena Mubin Matthew Wee Ann Poh (Asia Pasific University of Technology & Innovation (APU), Malaysia)	A Review on Gamification Design Framework: How They Incorporated for Autism Children	Siti Azreena Mubin	
7.	22	Suman Sukhavasi, Thinagaran Perumal Norwati Mustapha Razali Yaakob (Universiti Putra Malaysia, Malaysia)	Device Verification and Compatibility for Heterogeneous Semantic IoT Systems	Thinagaran Perumal	
8.	27	Yi Yun Lau, Muhammad Nasiruddin Mahyuddin Bakhtiar Affendi Rosdi Noor Hafizi Hanafi (Universiti Sains Malaysia, Malaysia)	Autonomous Test System for CAN-based Automotive Instrument Cluster	Muhammad Nasiruddin Mahyuddin	
9.	37	Yong Jonathan Chung Ee Shariff Ghanem Nawazdeen, Norsaremah Bt Salleh Siow Chee Loon (UCSI University)	Risk Assessment of Building Fire Evands Mith Stochastic Obstructed Emergency	YOUR DIRECTIONS AND THE CO. IN TH	

10.	39	Zhong Ying Thean Vooi Voon Yap Peh Chiong The (Universiti Tunku Abdul Rahman, Malaysia)	Container-based MQTT broker cluster for edge computing	Zhong Ying Thean
11.	40	Muhamad Najib Zamri Mohd Shahrizal Sunar (Universiti Teknologi Malaysia, Malaysia)	Research on Atmospheric Clouds: A Review of Cloud Animation Methods in Computer Graphics	Muhamad Najib Zamri
12.	41	Syahida Hassan Azizah Ahmad, Alawiyah Abd Wahab, Rahayu Ahmad, Juliana Wahid (Universiti Utara Malaysia, Malaysia)	Simplicity is The Golden Rule: Lesson Learned from The Development of Smart Mobile Apps for Rural Community	Syahida Hassan
13.	42	Nur Nabilah Binti Abd Rahman Noor Syuhada Elyza Ghazali, Abdullah Sharaf and Rania Al-Ashwal (Universiti Teknologi Malaysia, Malaysia)	Critical Path Analysis For Myocardial Infarction Patient	Nur Nabilah Binti Abd Rahman
14.	46	Laurent Nana François Monin and Sophie Gire (University of Brest, France)	Proof of properties of a syntax analyzer of robotic mission plans	Laurent Nana
15.	50	Ramesh Chand Meena Meenakshi Nawal Mahesh Bundele (SET, Poornima University, Jaipur, India)	Appraisal of Source IP Validation Techniques in SDN	Ramesh Chand Meena
16.	56	Medikonda Asha Kiran Syam Kumar Pasupuleti R Eswari (IDRBT/NIT Trichy)	A Lightweight Two-factor Mutual Authentication Scheme for Cloud-based IoT	Medikonda Asha Kiran
17.	57	Nahla Mohammed Elzein Mazlina Abdul Majid Mohammed Fakherldin Ibrahim Abaker (Universiti Malaysia Pahang, Malaysia)	ANN-based Performance Analysis on Human Activity Recognition	Nahla Mohammed Elzein
18.	54	Boezura Borhanuddin Norziana Jamil Ooi Thomas Wei Min Mohd Zafri Baharuddin Chen Soong Der Tan Kelvin Sim Zhen (Universiti Tenaga Nasional, Malaysia)	Small-Scale Deep Network for DCT-Based Image Classification	Borhanuda ele Borhanuda ele Berno Berno Collega de la collega de la coll

19.	64	Suhanah Rosnan Nurazzah Abd Rahman Shahirah Mohamed Hatim Zahirah Hamid Gul	Performance Evaluation of Inverted Files B-Tree and B+Tree Indexing Algorithm	Shahirah Mohamed Hatim
		Universiti Teknologi MARA Johor, Perak, Shah Alam, Malaysia)	in Malay Text	
20.	72	Khairul Adilah Ahmad Mahmod Othman Sharifah Lailee Syed Abdullah Noor Rasidah Ali Siti Rafidah Muhamat Dawam (UiTM Kedah, Malaysia)	Mango Shape Maturity Classification Using Image Processing	Khairul Adilah Ahmad
21.	75	Jamaluddin Jasmis, Mohd Nor Hajar Hasrol Jono, Azlan Abdul Aziz, Rosdiana Abd Razak, Shamsul Jamel Elias Shaifizat Mansor (UiTM Kedah Malaysia)	An Evolutionary Tool For Requirements and Design Crosscutting Concerns	Shaifizat Mansor
22.	76	Afida Ahmad, Ong Weng Eng Ab Razak Mansor (UiTM Kedah, Malaysia)	Preserving the Positivity of Curves and Surfaces using Radial Basis Function	Afida Ahmad
23.	77	Aznor Hanah M R A Rejab, Rohani Farook, M Fairuz M Fadzil, Shamsul Jamel Elias Zulkifli Husin (UNIMAP, Malaysia)	IoT Room Control And Monitoring System Using Rasberry Pi	Aznor Hanah
24.	67	Nur Hana Samsudin Lukman Nurhaqim Rahim (Universiti Sains Malaysia)	Rapid Heteronym Disambiguation for Text-to- Speech System	Nur Hana Samsudin
25	79	Quinny Ben Hassan, Azlan Abdul Aziz, Jamaluddin Jasmis Jasmis, Zainal Fikri Zamzuri, Syamsul Ariffin Yahya, Mohd Nor Hajar Hasrol Jono Shamsul Jamel Elias	Evaluation of e-Content for Adult Learners in a Distance Education Program: A Case Study	Siti Nurbaya Ismail
26	80	Elias Siti Nurbaya Ismail (UiTM Kedah) Taniza Tajuddin	Crime Suspect	Director Engineering Area College of Engineering College of Engineering Area College o
		Azizah Abdul Manaf,	(CSP) for Forensic	

	Nor Fatimah Awang, Siti Rafidah Muhamat Dawam,	Investigation on Smartphone	
	Noor Rasidah Ali Rafidah Amat (UiTM Kedah)		
		d Communication Engineeri	ng
27 14	Anita Garhwal Mohd. Riduan Ahmad, Badrul Hisham Ahmad, Sanyog Rawat, Pushepndra Singh, Kanad Ray, Anirban Bandyopadhyay (Amity University Rajasthan)	Dual Band Flower Shaped Fractal Patch Antenna for Remote Health Monitoring	Anita Garhwal
28 23	Fredrik Schalling Sebastian Ljungberg Naveen Mohan (KTH Royal Institute of Technology)	Benchmarking LiDAR Sensors for Development and Evaluation of Automotive Perception	Fredrik Schalling
29 38	Ramashini Murugaiya, Pg Emeroylariffion Abas, Ulmar Grafe, Liyanage C De Silva	Bird Sounds Classification using Linear Discriminant Analysis	Pg Emeroylariffion Abas,
30 44	Yuliarman Saragih Gilang Ramadhany Hakim Agatha Elisabet (Singaperbangsa Karawang of University, Indonesia)	Monitoring Design of Methods and Contents Methods in Semi Real Water Tandon by Using of Arduino – based on Internet of Things	Yuliarman Saragih
31 48	Ahmed A. Hussain Nizar Tayem, Abdel-Hamid Soliman (Prince Muhammad Bin Fadh University)	Matrix Decomposition Methods for Efficient Hardware Implementation of DOA Estimation Algorithms: A Performance Comparison	Ahmed A. Hussain
32 55	Venkata Raghunadh Machavaram (A. Prof) Bheema Rao Nistala (National Institute of Technology, Warangal, India)	A High Performance Miniaturized onchip 25 GHz Narrow Bandpass Filter for 5G Radio Access Applications	Venkata Raghunadh Machavaram (A. Prof)
33 58	Sridhar K V Prof. Kishore Kumar T (National Institute of Technology, Warangal, India)	Performance Evaluation Of CS Based Speech Enhancement Using Fixed And Sparse Dictionar	Director Engineer Collectivitional Acceptance of Engineer Collectivitional Acceptance de la collectivitional Acceptance de la collectivitional Acceptance de la collectivitional Acceptance de la collectivitie

34	63	Sagar Shankarrao Dr Minh Nyuen Prof Wei Qi Yan Shazebo Kazi (Auckland University of Technology, New Zealand)	Human Tumor Detection using Active Contours and Region Growing Segmentation	Sagar Shankarrao
35	66	Saravana Selvan Umayal (Aimst University, Malaysia)	A Novel Dual Electrode and Gate Extended Doping-less TunnelFET for RF Energy Harvesting	Saravana Selvan
36	70	Indu Chhipa Devendra Somwanshi (Poornima University, India)	Fuzzy Logic Controller to control internal climate of a greenhouse	Indu Chhipa
		Track 3:Elec	trical Engineering	
37	49	You-Chun Huang Chin-Sien Moo, Wan-Jung Chen, Shih-An Yin (National Sun Yat-Sen University)	An LED Driver Circuit with Partial Power Regulation for Photovoltaic Warning-Light	You-Chun Huang
38	60	Nur Darina Ahmad Nik Muhamad Syazwan Nek Omar Siti Solehah Md Ramli, Nurul Huda Ishak Mohd Taufiq Ishak Norlina Md Zain (UiTM Pulau Pinang Branch, Malaysia)	A Study on Varies Temperature and Varies Gap Distance on Mixed Vegetable Oil as an Transformer Oil	Nur Darina Ahmad
39	61	Siti Solehah Md Ramli Mohd Khairul Anwar Md Khairudin Nur Darina Ahmad Nurul Huda Ishak Nur Fadhilah Jamaludin Nur Atharah Kamarzaman Mohamad Kamarol Mohd Jamil (UiTM Pulau Pinang Branch, Malaysia)	An Effect on Form Particle Contamination in Biodegradable Transformer Oil	Siti Solehah Md Ramli

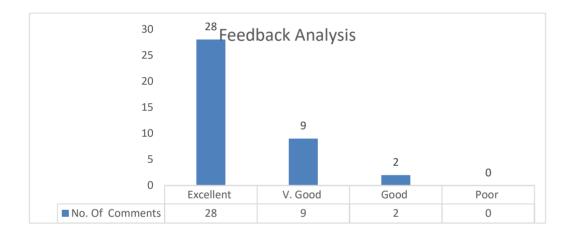


### **FEEDBACK ANALYSIS:**

Written feedback was collected from each participant during each session. Oral feedback and views shared by the participants revealed that the conference has successfully fulfilled the objectives of the conference set forth. All the participants in their oral feedback have given positive remarks in all respects and shown their satisfaction over all the arrangements except about the time management.

The analysis is presented below;

ybib ib pi eb	circa below,		
	Attributes	Comments	No. Of Comments
Program	How was the seminar?	Excellent	28
		V. Good	9
		Good	2
		Poor	0



## **SWOT ANALYSIS:**

The primary goal of such conferences is to promote research and developmental activities in recent advances in engineering and allied areas. Another goal is to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working in and around the world.

### **Strengths of the Conference:**

- Experienced event team.
- Excellent PR.
- High motivation level.
- Usage of the right event marketing tools.
- Good market share, strong brand name.
- Many social media followers.

### **Weakness of Conference:**

- Domination by a few Participants
- Expenditure





Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

## **CONFERENCE REPORT**

International Conferenceon Artificial Intelligence: Advances and Applications (ICAIAA-2019)

**TITLEANDDURATION:** International Conference on "Artificial IntelligenceAdvances and Applications (ICAIAA-2019)" June 28-29, 2019.

**SPONSORS:**RTU TEQIP-III.

**SUPPORTERS:**Rajasthan Technical University (RTU), Kota.

**ORGANIZING PARTNERS:**ICAIAA-2019was jointly organized by Poornima College of Engineering, Jaipur and Rajasthan Technical University, Kota in association with Soft Computing Research Society (SCRS)

**PUBLISHER(S):**Springer

### THEMES/TRACKS:

Track-1 Artificial Intelligence

**Track-2** Intelligent Sensor, Devices & Applications

### **OBJECTIVES:**

Rajasthan Technical University, Kota, Poornima College of Engineering, Jaipur, Poornima Institute of Engineering and Technology, Jaipur & Jawaharlal Nehru Technological University, Hyderabad are jointly organized a TEQIP III Sponsored International Conference on "Artificial Intelligence: Advances and Applications-2019" (ICAIAA-2019) on June 28-29, 2019. ICAIAA-2019 (International Conference on Artificial Intelligence: Advances and Applications-2019) is a two-day conference which aims bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Engineering Applications of Artificial Intelligence. It is provides a premier interdisciplinary platform for researchers, practice as a challenges encountered and solutions adopted in the fields of Engineering and out by various students such as bachelor, master and doctoral scholars, faculty and industry persons in the

area of Artificial Intelligence, Machine Learning, and Deep Learning applications in Healthcare, Agriculture, Business, and Security etc. It will also cover research in core concepts of Computer Networks, Intelligent System design and deployment, Real time systems, WSN, Sensors and Sensor nodes, SDN, NFV etc. Each book chapter shall emphasize on specific sub domains of AI and Deep Learning. It will be useful for students, faculty and industry working on AI applications. AI is an emerging technology that shall be used almost all applications / technologies/ systems in one or other form. Thus, the conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.

#### **EXPECTEDOUTCOMES:**

The expected outcomes from the Conference are:

- A toolkit for implementation
- Learning and knowledge exchange among Conference participants through interdisciplinary discussions.
- A series of documented case studies, video interviews, information briefs and other materials for Artificial Intelligence.
- A Conference report, including lessons from the International Decade for Advancement and Application in the field of Artificial Intelligence.



#### **BROCHURE/POSTER/LEAFLET/FLYER:**



Dr. Mahesh Bundele BE. ME. Ph.D. Director Poornima College of Engineering Filico Institutional Area Stlapura, JAIPUR

# RESPONSE(SUBMISSION/ACCEPTANCE/PRESENTATION):

In ICAIAA-2019, total 188 papers are received across the world consented and reviewed the papers. 59 papers were accepted after a rigorous review procedure, making it very selective. 51 papers are registered, Out of which 40 papers are presented in the conference.

	Track1	Track2	Total
Total No. of Papers Submitted	97	91	188
Total No. of Papers Accepted	33	26	59
Total No. of Papers Registered	28	23	51
<b>Total No. of Papers Presented</b>	22	18	40

## **PROGRAMOUTLINE:**





TEQUE III International Conference on Artificial Intelligence: Advances and Applications (ICAIAA-2019) (28-29th June 2019)





Programme Outline				
	Friday, Day 1: 28 <sup>th</sup> June, 2019			
09.00 am – 10.00 am	Welcome Reception and Registration Opens			
9.30 am – 10.00 am	High Tea			
10.00 am – 11.30 am	A. Prof. Dr. Uday A. Dabade B. Dr. S.M. Seth, Chairman (f. C. Prof. Ravindra P. Purohit D. Prof. B. Vishnu Vardhan, E. Prof. Harish Sharma, Ass F. Dr. Jagdish Chandra Ban: G. Dr. Mahesh Bundele, Dire H. Dr. Dinesh Goyal, Director	Inaugural Function & Keynote Address  A. Prof. Dr. Uday A. Dabade, State Project Administrator of SPIU (TEQIP III), Chief Guest  B. Dr. S.M. Seth, Chairman (Emeritus), Poornima Foundation, (Presiding over the function)  C. Prof. Ravindra P. Purohit, Vice President Hindustan Construction Ltd. Mumbai (Guest of honour)  D. Prof. B. Vishau Vardhan, JNTU, Hyderabad, Organizing Chair ICAIAA 2019  E. Prof. Harrish Sharma, Associate Professor CSE, RTU Kota, General Chair, ICAIAA 2019  F. Dr. Jagdish Chandra Bansal, Associate Professor, South Asian University New Delhi  G. Dr. Mahesh Bundele, Director, PCE, General Chair ICAIAA 2019  H. Dr. Dinesh Goyal, Director, PIET, Organizing Chair ICAIAA 2019  I. Shri Rahul Singhi, Director, Poornima Group  Venue: Arbuda Convention Center, PIET		
11.30 am- 12.00 Noon	Plenary Talk 1 Speaker: Dr. Nilanjan Dey, Assistant Professor, Department of IT, Techno India College of Technology, Kolkata, India Title: The Silent Thief of Sight - CAD for Glaucoma			
12.00 Noon – 12.30 pm	Speaker: Dr. Swagatam Statistical Institute, Kolkata	Plenary Talk 2  Das, Associate Professor, EC		
12.30 pm - 01.30 pm		h Break- Transfer from PIET		
	Parallel Technical Sessions			
01.30 pm – 2.30 pm	Session 1A Seminar Hall CG-05 AI, ML & Deep Learning Applications	Session 1B Seminar Hall AG-03 AI, Cloud and Power System	Session 1C: Seminar Hall AB-05 Human Face, Emotions, Handwriting & Finger Print Recognition	
02.30 pm – 03.00 pm		Tea Break		
		Plenary Talk 3		
03.00 pm – 03.30 pm	Speaker: Dr. Kottakkaran Sooppy Nisar, Associate Professor, Department of Mathematics, College of Arts & Sciences, Prince Sattam bin Abdul-Aziz University, Kingdom of Saudi Arabia  Title: Some Recent Trends in Mathematics: Fractional Calculus, Optical Communications, and Cryptosystems			
	Plenary Talk 4			
03.30 pm – 04.00 pm	Speaker: Dr. Jagdish Chand Bansal, Assistant Professor (Senior Grade), Department of Mathematics, South Asian University, New Delhi Title: Artificial Intelligence & Environment			
		Parallel Technical Sessions		
04.00 pm – 05.00 pm	O4.00 pm - 05.00 pm  Session 2A Seminar Hall CG-05 Health Care Applications  Session 2B IT Seminar Hall AG-03 Filter Design and Instrumentation Amplifier  Session 2B Session 2C Seminar Hall AI Miscellaneous Appl			

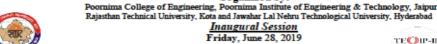


## **INAUGURALSESSION:**



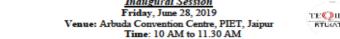
#### International Conference on Artificial Intelligence: Advances and Applications ICAIAA-2019-(28-29 June 2019) Organized by:











1.       Reporting and Registration of Delegates       60 Min       09:00 am-10:00 am         2.       High Tea       30 min       9:30 am - 10:00 am	S. No	Activity	Duration	Time
2. High Tea 3. Gathering of sudience in Arbuda 4. Arrival of Guesti & Group Photograph of Dignitaries 5. Welcome of Dignitaries by the anchors & Ganesh Vandana 6. Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana Andio) 6. Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana Andio) 6. Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana Andio) 6. Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana Andio) 6. Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana Andio) 6. Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana Andio) 7. A Prof. Dr. Uday A. Dabade, State Project Administrator of SPIU (TeQP III) 8. Dr. S. M. Seth, Chairman (Emeritus), Poornima Foundation, Presiding over the function 8. C. Prof. Ravindra P. Purohit, Vice President Hindustan Construction Ltd. Mumbai (Guest of honour) 9. Prof. B. Vishnu Vardhan, NTU, Hyderabad, Organizing Chair ICAIAA 2019 9. F. Dr. Jagdish Chandra Bansal, Associate Prof., South Asian University New Delhi 9. Dr. Garima Mathur, Organizing Secretary ICAIAA 2019 9. T. Ar Rahul Singhi, Director, POEE, General Chair ICAIAA 2019 9. T. Ar Rahul Singhi, Director, Poernima Group 9. C. Felicitation of Chiel Guest Frof. Dr. Uday A. Dabade, State Project Administrator of SPIU (TeQP III), by Prof. Barrish Sharma, RTU Kota by Mr. Pankaj Dhemia, Vice Principal, Poer Ediciation of Prof. B. Vishnu Vardhan, NTU, Hyderabad by Dr. Dinesh Goyal, Disector, Pier E. Pielicitation of Prof. B. Vishnu Vardhan, NTU, Hyderabad by Dr. Dinesh Goyal, Disector, Pier E. Pielicitation of Prof. B. Vishnu Vardhan, NTU, Hyderabad by Dr. Organizing Secretary ICAIAA 2019  8. Release of Conference Proceeding by Dignitaries 9. Welcome Address & About Conference Dr. Mahesh Bundele 10. Introduction & Address by Pr. Dinesh Goyal, Disector, Poornima Group 11. Introduction & Address by Prof. Burba Hydrothymatics Construction of Ministrator of Spiu (Induction & Address by Prof. Burba Sharma, Organ		·	60 Min	
3. Gathering of audience in Arbuda 4. Arrival of Guests & Group Photograph of Dignitaries 5. Welcome of Dignitaries by the anchors & Ganesh Vandana 6. Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana Andio) A Prof. Dr. Uddy A. Dabade, State Project Administrator of SPIU (TEQIP III) Chief Guest B. Dr. S. M. Seth, Chairman (Emeritus), Poornima Foundation, Presiding over the function C. Prof. Ravindra P. Purohit, Vice President Hindustan Construction Ltd. Mumbai (Guest of honour) D. Prof. B. Vichau Vardhan, JNTU, Hyderabad, Organizing Chair ICAIAA 2019 E. Dr. Harrish Sharma, Associate Professor, RTU Kota, Organizing Secretary ICAIAA 2019 F. Dr. Jagdish Chandra Bansal, Associate Prof., South Asian University New Delhi G. Dr. Mahesh Bundele, Director, PCE, General Chair ICAIAA 2019 H. Dr. Dinesh Goyal, Director, PIET, Organizing Chair ICAIAA 2019 I. Ar. Rahul Singhi, Director, PIET, Organizing Chair ICAIAA 2019 T. Ar. Rahul Singhi, Director, PIET, Organizing Chair ICAIAA 2019 T. Pr. Gariman Mathur, Organizing Secretary ICAIAA 2019 C. Felicitation of Chief Guest Frof. Dr. Uday A. Dabade, State Project Administrator of SpIU (TEQIP III), by Prof. Harrish Sharma, RTU Kota S. Felicitation of Guest of honour Prof. Ravindra P. Parohit, Vice President Hindustan Construction Ltd Mumbais by Dr. Mahesh Bundele, Director, PIET E. Felicitation of Prof. B. Vishau Vardhaa, JNTU, Hyderabad by Dr. Dinesh Goyal, Director, PIET E. Felicitation of Prof. B. Vishau Vardhaa, JNTU, Hyderabad by Dr. Garima Mathur Organizing Secretary ICAIAA 2019  8. Release of Conference Souvenir & Proceeding by Dignitaries 9. Welcome Address & About Conference Dr. Mahesh Bundele 0. Introduction & Address by Dr. Dinesh Goyal, Director, PIET 1. Introduction & Address by Dr. Dinesh Goyal, Director, PIET 1. Introduction & Address by Prof. Br. Vishau Vardhaa, JNTU, Hyderabad 1. Introduction & Address by Prof. Br. Vishau Vardhaa, JNTU, Hyderabad 1. Introduction & Address by Prof. Br. Vishau Vardhaa, JNTU, Hyderabad 1. Introduction & Addre				
A.   Arrival of Guests & Group Photograph of Dignitaries   S.   Welcome of Dignitaries by the anchors & Canesh Vandana   O. Min   10.00 am-10.00 am				9.40 am - 10.00 am
5. Welcome of Dignitaries by the anchors & Canesh Vandana 6. Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana Andio) A Prof. Dr. Uday A. Dabade, State Project Administrator of SPIU (TEQIP III) Chief Guest B. Dr. S. M. Seth, Chairman (Emeritus), Poornima Foundation, Presiding over the function C. Prof. Ravindra P. Purohit, Vice President Hindustan Construction Ltd. Mumbai (Guest of honour) D. Prof. B. Vishan Vardhan, JNTU, Hyderabad, Organizing Chair ICAIAA 2019 E. Dr. Harish Sharma, Associate Professor, RTU Kota, Organizing Secretary ICAIAA 2019 F. Dr. Jagdish Chandra Bansal, Associate Prof., South Asian University New Delhi G. Dr. Mahesh Bundele, Director, PCE, General Chair ICAIAA 2019 I. Ar. Rahul Singhi, Director, Poornima Group J. Dr. Garima Mathur, Organizing Secretary ICAIAA 2019 7. A Felicitation of Chief Geest Prof. Dr. Uday A. Dabade, State Project Administrator of SPIU (TEQIP III), by Prof. Harish Sharma, RTU Kota B. Felicitation of Dr. S. M. Seth, Chairman (Emeritus), Poornima Foundation by Ar. Rahul Singhi, Director, Poornima Group C. Felicitation of Prof. B. Vishau Vardhan, JNTU, Hyderabad by Dr. Dinesh Goyal, Director, PDET B. Felicitation of Prof. B. Vishau Vardhan, JNTU, Hyderabad by Dr. Dinesh Goyal, Director, PDET B. Felicitation of Prof. Harish Sharma, RTU Kota by Mr. Panlasj Dhemla, Vice Principal, PCE F. Felicitation of Prof. Bardish Chandra Bansal, SAU, New Delhi by Dr. Garima Mathur Organizing Secretary ICAIAA 2019  8. Release of Conference Souvenir & Proceeding by Dignitaries Old Minumbai by Dr. Dinesh Goyal, Director, PDET Old Minumbai by Dr. Dinesh Goyal, Director, POET Old Minumbai Chandra Bansal, Associate Prof. South Asian University New Delhi Introduction & Address by Dr. Dinesh Goyal, Director, Poornima Group. Old Minumbai Address by Prof. Br. Uday A. Dabade, Professor, Department of Minumbai Address by Prof. Br. Uday A. Dabade, Professor, Department of Minumbai Address by Prof. Dr. Uday A. Dabade, Professor, Department of SPIU (IEQIP III) Introduction & A				
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(Guest of honour)  D. Prof. B. Vishnu Vardhan, JNTU, Hyderabad, Organizing Chair ICAIAA 2019  E. Dr. Harish Sharma, Associate Professor, RTU Kota, Organizing Secretary ICAIAA 2019  F. Dr. Jagdish Chandra Bansal, Associate Prof., South Asian University New Delhi  G. Dr. Mahesh Bundele, Director, PCE, General Chair ICAIAA 2019  H. Dr. Dinesh Goyal, Director, PCE, General Chair ICAIAA 2019  I. Ar. Rahul Singhi, Director, Poornina Group  J. Dr. Garima Mathur, Organizing Secretary ICAIAA 2019  7. A Felicitation of Chief Guest Frof. Dr. Uday A. Dabade, State Project Administrator of SPIU (TEQIP III), by Prof. Harrish Sharma, RTU Kota  B. Felicitation of Dr. S. M. Seth, Chairman (Emerins), Poornina Foundation by Ar. Rahul Singhi, Director, Poornina Group  C. Felicitation of Guest of honour Prof. Ravindra P. Purohit, Vice President Hindustan Construction Lid. Mumbai by Dr. Mahesh Bundele, Director, PCE  D. Felicitation of Prof. Harrish Sharma, RTU Kota by Mr. Pankaj Dhemla, Vice Principal, PCE  F. Felicitation of Prof. Harrish Sharma, RTU Kota by Mr. Pankaj Dhemla, Vice Principal, PCE  F. Felicitation of Prof. Harrish Sharma, RTU Kota by Mr. Pankaj Dhemla, Vice Principal, PCE  F. Felicitation of Prof. Harrish Sharma, RTU Kota by Mr. Pankaj Dhemla, Vice Principal, PCE  F. Felicitation of Prof. Harrish Sharma, Sharma, Organizing Secretary ICAIAA 2019  8. Release of Conference Souvenir & Proceeding by Dignitaries  9. Welcome Address by Dr. Dinesh Goyal, Director, PIET  10. Introduction & Address by Dr. Jagdish Chandra Bansal, Associate Prof., South Asian University New Delhi  11. Introduction & Address by Prof. Harish Sharma, Organizing Chair ICAIAA 2019  12. Introduction & Address by Prof. B. Vishnu Vardhan, JNTU, Hyderabad  13. Introduction & Address by Prof. B. Vishnu Vardhan, JNTU, Hyderabad  14. Introduction & Address by Prof. B. Vishnu Vardhan, JNTU, Hyderabad  15. Introduction & Address by Prof. B. Vishnu Vardhan, JNTU, Hyderabad  16. Introduction & Address by Prof. B. Vishnu Vardhan, JNTU, Hyderabad  17. Introduct	6.	A. Prof. Dr. Uday A. Dabade, State Project Administrator of SPIU (TEQIP III) Chief Guest B. Dr. S. M. Seth, Chairman (Emeritus), Poornima Foundation, Presiding over the function	03 Min	10:05 am-10:08 am
SPIU (TEQIP III), by Prof. Harish Sharma, RTU Kota  B. Felicitation of Dr. S. M. Seth, Chairman (Emeritus), Poornima Foundation by Ar. Rahul Singhi, Director, Poornima Group  C. Felicitation of Guest of honour Prof. Ravindra P. Purohit, Vice President Hindustan Construction Ltd. Mumbai by Dr. Mahesh Bundele, Director, PCE  D. Felicitation of Prof. B. Vishnu Vardhan, JNTU, Hyderabad by Dr. Dinesh Goyal, Director, PIET  E. Felicitation of Dr. Jagdish Chandra Bansal, SAU, New Delhi by Dr. Garima Mathur Organizing Secretary ICAIAA 2019  8. Release of Conference Souvenir & Proceeding by Dignitaries  9. Welcome Address & About Conference Dr. Mahesh Bundele  10. Introduction & Address by Dr. Dinesh Goyal, Director, PIET  11. Introduction & Address by Ar. Rahul Singhi, Director, Poornima Group.  12. Introduction & Address by Dr. Jagdish Chandra Bansal, Associate Prof., South Asian University New Delhi.  13. Introduction & Address by Prof. Harish Sharma, Organizing Chair ICAIAA 2019  14. Introduction & Address by Prof. Harish Sharma, Organizing Chair ICAIAA 2019  15. Introduction & Address by Prof. B. Vishnu Vardhan, JNTU, Hyderabad  16. Introduction & Address by Prof. Dr. Uday A. Dabade, Professor, Department of Mechanical Engineering, WCE, Sangli, State Project Administrator of SPIU (TEQIP III)  16. Introduction of Guest of honour Prof. Ravindra P. Purohit, Vice President Hindustan Construction Ltd. Mumbai -Keynote Address (All other Dignitaries will take their Seats in Front Row)  18. Vote of Thanks by Dr. Garima Mathur, Organizing Secretary ICAIAA 2019  19. Min 11:25 am-11:25 am		<ul> <li>D. Prof. B. Vishnu Vardhan, JNTU, Hyderabad, Organizing Chair ICAIAA 2019</li> <li>E. Dr. Harish Sharma, Associate Professor, RTU Kota, Organizing Secretary ICAIAA 2019</li> <li>F. Dr. Jagdish Chandra Bansal, Associate Prof., South Asian University New Delhi</li> <li>G. Dr. Mahesh Bundele, Director, PCE, General Chair ICAIAA 2019</li> <li>H. Dr. Dinesh Goyal, Director, PIET, Organizing Chair ICAIAA 2019</li> <li>I. Ar. Rahul Singhi, Director, Poornima Group</li> </ul>		
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10. Introduction & Address by Dr. Dinesh Goyal, Director, PIET  11. Introduction & Address by Ar. Rahul Singhi, Director, Poornima Group.  12. Introduction & Address by Dr. Jagdish Chandra Bansal, Associate Prof., South Asian University New Delhi.  13. Introduction & Address by Prof. Harish Sharma, Organizing Chair ICAIAA 2019  14. Introduction & Address by Prof. B. Vishnu Vardhan, JNTU, Hyderabad  15. Introduction & Address by Prof. Dr. Uday A. Dabade, Professor, Department of Mechanical Engineering, WCE, Sangli, State Project Administrator of SPIU (TEQIP III)  16. Introduction & Words of blessing by Dr. S. M. Seth, Chairman (Emeritus), Poornima Foundation  17. Introduction of Guest of honour Prof. Ravindra P. Purohit, Vice President Hindustan Construction Ltd. Mumbai -Keynote Address (All other Dignitaries will take their Seats in Front Row)  18. Vote of Thanks by Dr. Garima Mathur, Organizing Secretary ICAIAA 2019  04 Min 10.21 am-10.25 am 10.30 am-10.30 am 10.30 am-10.35 am 10.40 am 10.45 am-10.45 am 10.45 am-10.55 am 10.40 am 10.45 am-10.55 am 10.45 am 10.45 am 10.45 am-10.45 am 10.45 am-	8.	Release of Conference Souvenir & Proceeding by Dignitaries	03 Min	10.13 am-10.16 am
11. Introduction & Address by Ar. Rahul Singhi, Director, Poornima Group.  12. Introduction & Address by Dr. Jagdish Chandra Bansal, Associate Prof., South Asian University New Delhi.  13. Introduction & Address by Prof. Harish Sharma, Organizing Chair ICAIAA 2019  14. Introduction & Address by Prof. B. Vishnu Vardhan, JNTU, Hyderabad  15. Introduction & Address by Prof. Dr. Uday A. Dabade, Professor, Department of Mechanical Engineering, WCE, Sangli, State Project Administrator of SPIU (TEQIP III)  16. Introduction & Words of blessing by Dr. S. M. Seth, Chairman (Emeritus), Poornima Foundation  17. Introduction of Guest of honour Prof. Ravindra P. Purohit, Vice President Hindustan Construction Ltd. Mumbai -Keynote Address (All other Dignitaries will take their Seats in Front Row)  18. Vote of Thanks by Dr. Garima Mathur, Organizing Secretary ICAIAA 2019  05 Min 05 Min 01.030 am-10.35 am 05 Min 10.40 am-10.45 am 10.45 am-10.55 am 10.45 am-10.55 am 10.45 am-10.55 am 10.46 am-10.55 am-11.05 am 10.46 am-10.45 am 10.47 am-10.45 am 10.48 am-10.49 am 10.49 am-10.45 am 10.49 am-10.45 am 10.40 am-10.40 am 10.40 am-10.4	9.	Welcome Address & About Conference Dr. Mahesh Bundele	05 Min	10:16 am-10:21 am
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Asian University New Delhi.  13. Introduction & Address by Prof. Harish Sharma, Organizing Chair ICAIAA 2019  14. Introduction & Address by Prof. B. Vishnu Vardhan, JNTU, Hyderabad  15. Introduction & Address by Prof. Dr. Uday A. Dabade, Professor, Department of Mechanical Engineering, WCE, Sangli, State Project Administrator of SPIU (TEQIP III)  16. Introduction & Words of blessing by Dr. S. M. Seth, Chairman (Emeritus), Poornima Foundation  17. Introduction of Guest of honour Prof. Ravindra P. Purohit, Vice President Hindustan Construction Ltd. Mumbai - Keynote Address (All other Dignitaries will take their Seats in Front Row)  18. Vote of Thanks by Dr. Garima Mathur, Organizing Secretary ICAIAA 2019  05 Min 10.40 am-10.45 am 10.45 am-10.55 am 10.40 am-10.55 am-11.25 am 11.25 am-11.25 am 11.25 am-11.25 am 11.25 am-11.28 am	11.		05 Min	10.25 am-10.30 am
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14. Introduction & Address by Prof. B. Vishnu Vardhan, JNTU, Hyderabad   10.40 am-10.45 am	13.		05 Min	10.35 am-10.40 am
15. Introduction & Address by Prof. Dr. Uday A. Dabade, Professor, Department of Mechanical Engineering, WCE, Sangli, State Project Administrator of SPIU (TEQIP III)  16. Introduction & Words of blessing by Dr. S. M. Seth, Chairman (Emeritus), Poornima Foundation  17. Introduction of Guest of honour Prof. Ravindra P. Purohit, Vice President Hindustan Construction Ltd. Mumbai -Keynote Address (All other Dignitaries will take their Seats in Front Row)  18. Vote of Thanks by Dr. Garima Mathur, Organizing Secretary ICAIAA 2019  10 Min 10:45 am-10:55 am 10:45 am-11:25 am-11:25 am-11:25 am-11:25 am-11:28	14.	Introduction & Address by Prof. B. Vishnu Vardhan, JNTU, Hyderabad	05 Min	10.40 am-10.45 am
Poornima Foundation  17. Introduction of Guest of honour Prof. Ravindra P. Purohit, Vice President Hindustan Construction Ltd. Mumbai - Keynote Address (All other Dignitaries will take their Seats in Front Row)  18. Vote of Thanks by Dr. Garima Mathur, Organizing Secretary ICAIAA 2019  03 Min 11:25 am-11:28 am	15.	Introduction & Address by Prof. Dr. Uday A. Dabade, Professor, Department of Mechanical Engineering, WCE, Sangli, State Project Administrator of SPIU	10 Min	10:45 am-10:55 am
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, , , , , , , , , , , , , , , , , , , ,		Introduction of Guest of honour Prof. Ravindra P. Purohit, Vice President Hindustan Construction Ltd. Mumbai -Keynote Address (All other Dignitaries will take their Seats in Front Row)		
<ol> <li>Group Photograph in front of PIET</li> <li>02 Min</li> <li>11.28 am-11:30 am</li> </ol>	18.	Vote of Thanks by Dr. Garima Mathur, Organizing Secretary ICAIAA 2019	03 Min	11:25 am-11:28 am
	19.	Group Photograph in front of PIET	02 Min	11.28 am-11:30 am

#### **KEYNOTESPEAKERS:**

Dr. Nilanjan Dey, Assistant Professor, Department of IT, Techno IndiaCollege of Technology, Kolkata, India

Title: The Silent Thief of Sight - CAD for Glaucoma

Dr. Swagatam Das, Associate Professor, EC, Sciences Unit of Management of the Company of the Com

Institute, Kolkata, India

Title: Predictive and Generative Deep Inference Models: Programme Record trends

Dr. Kottakkaran Sooppy Nisar, Associate Professor, Department of Mathematics,

College of Arts & Sciences, Prince Sattam bin Abdul-Aziz University, Kingdom of Saudi Arabia

Title: Some Recent Trends in Mathematics: Fractional Calculus, Optical Communications, and Cryptosystems

Dr. Jagdish Chand Bansal, Assistant Professor (Senior Grade), Departmentof
 Mathematics, South Asian University, New Delhi

Title: Artificial Intelligence & Environment

## **GLIMPSESOFPRESENTATIONS:**



























## **VALEDICTORYSESSION:**

## **International Conference**

on

# Artificial Intelligence: Advances and Applications (ICAIAA-2019) 28-29<sup>th</sup> June 2019)

# **Publication Support:**

Springer

# Organized by:

Poornima College of Engineering, Poornima Institute of Engineering & Technology, Jaipur Rajasthan Technical University, Kota and Jawahar Lal Nehru Technological University, Hyderabad

# **Valedictory Session**

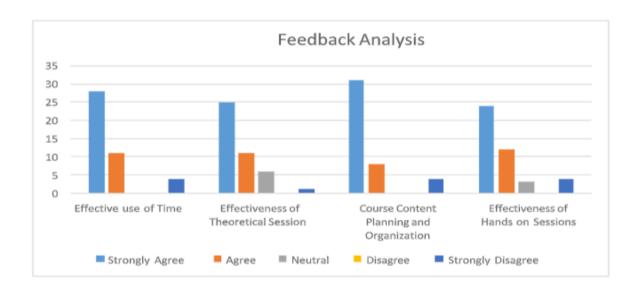
Wednesday, January 9, 2019 Venue: CG-05, PCE Time: 4.00 m to 5.00 pm

Sr. No	Activity	Durati on	Time
1.	Gathering of audience in CG-05, PCE	15 Min	3.45 pm-4.00 pm
2.	Welcome of Dignitaries by the anchors  A. Prof. Anupam Shukla, Director, IIIT Pune, Chief Guest  B. Dr. Shabana Urooj, Professor, Electrical  Engineering Department, School of Engineering, Gautam Buddha University, Greater Noida UP  India. – Workshop Organizer, PerCAA, Guest of  Honour  C. Dr. Manoj Gupta, Pro-President, Poornima  University, Jaipur  D. Dr. Mahesh Bundele, Program Co-Chair, PerCAA 2019	02 Min	4:00 pm- 4:02 pm
3.	A. Felicitation of Chief Guest Prof. Rahul Banerjee, Director, LNMIIT, Jaipur by Dr. Manoj Gupta, President PU B. Felicitation of Dr. Shabana Urooj by Dr. Mahesh Bundele	03 Min	4:02 pm-4:05 pm
4.	Conference Report by Dr. Mahesh Bundele	5 Min	4.05 pm-4.10
5.	Address by <b>Dr. Manoj Gupta, Pro-President PU</b>	5 Min	4.10 pm-4.15
6.	Address by <b>Dr. Shabana Urooj</b> , Workshop Organizer, PerCAA 2019	5 min	15 pm-4.20
7.	Certificate Distribution at the Hands of Dignitaries	Mahes	BETOM E. 4.50
8.	Participants Feedback	nima Colle	institutiona +.40
9.	Introduction & Address by <b>Dr. Rahul Banerjee</b> , Director LNMIIT, Jaipur	10 Min	4.40 pm -4.50 pm

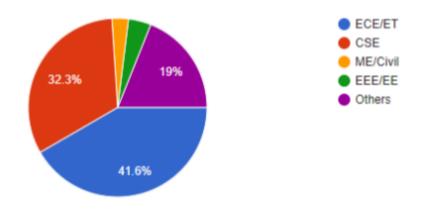
10.	Vote of Thanks by <b>Dr. Ajay Khunteta</b>	05 Min	4.50 pm-4.55
11.	Group Photograph in Porch	05 Min	4.55 pm-5:00 pm

# **FEEDBACKANALYSIS:**

	Effective use of Time	Effectiveness of Theoretical Session	Course Content Planning and Organization	Effectiveness of Hands on Sessions
Strongly Agree	28	25	31	24
Agree	11	11	8	12
Neutral	0	6	0	3
Disagree	0	0	0	0
Strongly Disagree	4	1	4	4



# **SWOTANALYSIS:**







Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

# A Report on 2-dayInternational Conference on Advances in Refrigeration & Energy Systems

**TITLEANDDURATION:** "Advances in Refrigeration & Energy Systems" (April 7-8, 2018)

SPONSORS:NIL

**SUPPORTERS:**NIL

ORGANIZING PARTNERS: ASHRAE, India Chapter

PUBLISHER(S):Nil

#### THEMES/TRACKS:

- RAC Components, Standards and Test Facilities
- CFD Simulation and Modeling in RAC
- Refrigerated Cold Chain, Transport and Cold Storage
- New Refrigeration Techniques
- Cold/Heat Recovery and Energy Efficiency
- Low Temperature Applications
- Automobile Air Conditioning
- Alternative Refrigerants & Technologies
- IC Engine Applications
- Heat Transfer and Fluid Flow
- Solar Thermal and PV Techniques
- Wind Energy Systems
- Hydropower Applications
- Bio fuel Technology



- Fuel Cell and Hydrogen Technology
- Geothermal Systems
- Renewable Energy in Smart Cities
- Sustainable and High Performance Buildings
- Building Simulations and Energy Modeling
- Alternate Fuels
- Waste Heat Recovery
- Mechatronics
- Energy saving for Vehicular Technology, Electric Machinery and Power Electronics
- Life Cycle Assessment
- Energy and Environment Policy Regulations

#### **OBJECTIVES:**

Realizing that intellectual competitiveness is vital to India in achieving the status of a vibrant global leader in the growing knowledge age and technical and management education has created for itself a critical niche area, the PJ Foundation, as an umbrella body, will devote itself to formulation of desired policies and providing broad directions, guidance and support to the managements of the participating colleges.

The main objectives are to:

- Create industry effective curriculum and courses
- Establish effective collaboration and cooperation among institutions
- Initiate fellowships, scholarships and awards
- Identify new growth areas
- Create new research and development platform
- Provide orientation and approach/practices for efficient institutional management
- Ensure effective execution of teaching learning processes

The areas indicated are only illustrative and do not limit the scope of the Foundation's guidance/assistance. It may contribute in any other area(s) conducive to the attainment of its broad Mission. The endeavor will be to develop and implement mechanisms and practices to supplement engineering/technical education with knowledge of management and social sciences and inculcate interpersonal skills so as to make the students more enterprising and competitively oriented.

The PJ Foundation will serve as a 'think tank' to deliberate on all aspects of technical/professional education and reorientation of approach/ practices adopted for the efficient management of the colleges/ institutions. The Foundation is also committed to providing quality research in technology and management and their standard. The directions/ guidelines issued by the PJ Foundation will be clowed and a correct to be the participating colleges in all seriousness. In the day-to-day management and their standard in the colleges, the foundation will have no direct role and they will be the colleges approach and practice. The foundation is not intended to interfere in their working except to the extent

of seeing that the directions/guidelines, if any, issued by it is any specific matter (s) are duly followed.

#### **EXPECTEDOUTCOMES:**

It's palpable that Refrigeration and Energy System are of primary importance and modern society requires an ever increasing amount of energy resources. Refrigeration is considered as the most important engineering achievements of the 20th century having its large impact on industry, lifestyle, agriculture etc. Following the same ideology, the conference acts as the forum for the high intellectuals to discuss the scope of future research emphasizing the need and availability of energy resources and the applications of refrigeration system.

The conference will provide a platform to academicians, students and researchers for showcasing the different innovative ideas related to research and applications of mechanical engineering. The presentations and expert talks will demonstrate the significance of Refrigeration & Energy System in different professional prospects. In this conference, deliberations on Refrigeration & Energy System will take place through the gathering of renowned personalities and expertise opening the new arenas of knowledge and professions for engineers and entrepreneurs.

#### **DETAILS OF CONFERENCE:**

Department of Mechanical Engineering, Poornima College of Engineering, Jaipur organized an International Conference on "Advances in Refrigeration & Energy Systems" on April 7 & 8<sup>th</sup>,2018 with technical support of green-assocham (GEM), Indian Society of Heating Refrigeration & Air Conditioning Engineering (ISHRAE) and TWIGA as a Table Partner. The conference took place to emphasize the need and importance of refrigeration and energy in current scenario.

On this occasion, Dr. Bruce D. Hunn, Consultant, Building Energy Analysis & Former Director, Strategic Technical Programs, ASHRAE, graced the occasion as the Chief Guest along with Mr. Priyank Garg, President, ASHRAE India Chapter, Guest of Honor, Mr. Indrajit Bhattacharya, General Manager, U.P. Twiga Fiberglass Limited, Guest of Honor, Dr. Jyotirmay Mathur, Prof. Department of Mechanical Engineering, MNIT Jaipur, Mr. K.K. Mitra, Past President, ASHRAE India Chapter, Mr. Sunil Bajaj, ASHRAE India Chapter, Dr. Om Prakash Sharma, Director, Poornima College of Engineering, Mr. Shailendra Kasera, Head & Asst. Prof., Dept of Mech. Engg. and Dr. Arun Kumar Behura, Associate Prof. Dept. of Mech. Engineering.

The conference began with the floral welcome of the dignitaries followed by felicitation ceremony and releasing of the Souvenir. It got initiated with the welcome address & introduction of ICARES -2018 which was given by Dr. Om Prakash Sharma, Director PCE. He motivated the students and thanked the dignitaries for their precious time. He urged the students to witness such conference in future for their academic benefits. After this, Mr. Priyank Garg, President, ASHRAE India Chapter spoke about ASIRAF andia Chapter He handed over the certificate of Best Student Chapter Award to Dr. Maria and Mr. Shailendra Kasera.

The Chief Guest Dr. Bruce D. Hunn, Consultant, Buildi & Former Director, Strategic Technical Programs, ASHRAE delivered the inaugural speech. He, in his

remarks, described the implementation procedures for the performance measurement protocols documented in the 2012 ASHRAE publication *Performance Measurement Protocols for Commercial Buildings: Best Practices Guide*. This how-to guide provides practical steps and tools for continuously monitoring, evaluating, and improving the performance of commercial buildings throughout their service life. He stated that it supports integrated commissioning and all activities of the O&M team to ensure that their buildings are green, energy efficient, highly productive, and healthy. A process and tools are provided to quantitatively evaluate building performance at three levels of application for this. The inaugural ceremony ended with the vote of thanks given by Mr.Shailendra Kasera. Various technical sessions were also organized in this conference.

#### BROCHURE/POSTER/LEAFLET/FLYER:





## PROGRAMOUTLINE/ PROGRAM SCHEDULE/ INAUGURALSESSION:

## **ICARES-2018 Program Schedule**

Day-1

Venue: CG05, PCE Anchors: Mr. Saket Verma and Puneet Suthar

S.No	Activity	Time
1	Reporting and Registration of Delegates	08:30-09:30 am
2	Welcome of Dignitaries by the anchors  Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana)	09:30-09:40 am
3	Felicitation of Chief Guest , Guest of Honor and Other Dignitaries	09:40-09:45 am
4	Release of Souvenir by Dignitaries on Dias	09:45-09:55 am
5	Welcome Address & Introduction of ICARES-2018 by Dr. Om Prakash Sharma, Director, PCE	09:55-10:00 am
6	About ASHRAE India Chapter and Handing Over the Best Chapter Award by Mr. Priyank Garg, President, ASHRAE India Chapter to Director, PCE and HOD, Dept of Mech Engg, PCE	10:00-10:10 am
7	Inaugural Speech by Chief Guest Dr. Bruce D Hunn, Consultant, Building Energy Analysis & Former Director, Strategic Technical Programs, ASHRAE	10:10-10:20 am
8	Vote of Thanks by Mr. Shailendra Kasera, Head & Asst.  Prof., Dept of Mech Engg, PCE	10:20-10:25 am
9	Poornima Gaan followed by National Anthem	10:25-10:30 am
10	Request the dignitaries to leave the Dias	esh Bunger
11	Technical Sessions  Lecture by Dr. Bruce D. Humm on Best Practice for	am

	Evaluating and Improving the Performance of Commercial	
	Buildings	
12	Lecture by Dr. S.C. Bhaduri on Impact of Kigali	11:30-12:05
12	amendment on refrigeration industry	pm
13	Lecture by Dr. Jyotirmay Mathur on Radiant Cooling	12:05-12:40
	Zectare by Dr. vyourmay Haunar on Haunar Cooming	pm
14	Presentation by U.P. Twiga Fiberglass Limited	12:40-01:05
	2 1000 marsh of 012 1 1 mgm 1 1002g.mos 2 mmood	pm
15	Photo Session (PCE Porch)	01:05- 01:15
13	Thoto Bession (Tell Foren)	pm
16	Lunch at PCE Mess	01:15-2:00 pm
17	Lecture by Mr. Sameer Maithel on Energy Efficient	02:00 -
17	Building Envelope for Residential Buildings	02:30pm
18	Lecture by Mr. Kanagraj Ganeshan on Low Energy	02:30 -03:00
10	Cooling Systems	pm
	Lecture by Mr. Neeraj Arora, Senior Director,	03:00-03:30
19	ASSOCHAM on Green Building – Stop Nature being a	pm
	Historical topic	
20	High Tea	03:30-04:00
	<i>5</i>	pm
21	Lecture by Dr. Jorge E. Hernandz on Critical Applications	04:00-04:45
		pm
22	End of day one-Vote of Thanks by Anchors	04:45 pm
	I.	1

**Day -** 2 (Venue: CG-05 Seminar Hall, PCE, Jaipur)

S.No	Activity	Time dele
1	Breakfast at PCE Mess	Dr. Mahesh Bulland OB.E. M9:30 Director Englished

2	Registration	09:30-09:45
_	Tregion miles	am
3	Technical Parallel Session	09:45-12:00
		noon
4	Photo Session (Outside PCE, Main entrance)	12:00-12:05
'	Thoto Session (Suiside Tell, Iviain Chamice)	pm
5	Lunch at Poornima College of Engineering (Mess)	12:05-01:00
3	Editer at 1 offining Conege of Engineering (wess)	pm
	Valedictory Session	
	a. Brief overview of the conference	
	b. Discussion on issues related to Refrigeration and Energy	
6	Systems	01:00-01:30
	c. Feedback of participants	pm
	d. Distributions of certificates	
	e. Vote of Thanks and concluding remarks	
7	Poornima Gaan followed by National Anthem	01:30-01:35
		pm

#### DETAILSOFRESOURCEPERSONS/ ORGANIZING COMMITTEES:

### Poornima foundation advisor committee

Mr. M. K. M. Shah Director (Admin. & Fin.), PF

Dr. Om Prakash Sharma Director, PCE

Mr. Rahul Singhi Director, PF

Ms. Renu Singhi Advisor, Alumni Association, PF

Dr. Rekha Nair Dean Academic, PF

Dr. Neeraj Jain Dean (Admissions), PF

Er. Rajeev David Proctor-in-Chief, PF

Mr. Ashwini Lata Dean, Hostels, PF

Ms. Dipti Lodha Chief TPO, PF



#### **Technical advisor committee**

Dr. Essam Eldin Khalil Cairo, University

Dr. Max Sherman Lawrence Berkeley National Laboratory, USA

Mr. James Kurt Vallort ASHRAE

Mr. E. Mitchell Swann MDC Systems, Paoli, USA

Mr. Hoy Bohanon Hoy Bohanon Engineering PLLC, USA

Dr. P.M.V. Subbarao IIT, Delhi

Dr. S. C. Kaushik IIT, Delhi

Dr. K. Srinivasa Reddy IIT, Madras

Dr. S.P. Harsha IIT, Roorkee

Dr. P.K. Sahoo IIT, Roorkee

Dr. M. Mishra IIT, Roorkee

Dr. S. K. Mohapatra IIT, Bhubaneswar

Dr. A. M. Sidpara IIT, Kharagpur

Dr. S.L. Soni NIT, Uttarakhand

Dr. Shishir Chandra Bhaduri JKLU, Jaipur

Dr. Jyotirmay Mathur MNIT, Jaipur

Dr. Dilip Sharma MNIT, Jaipur

Dr. G. D. Agarwal MNIT, Jaipur

Dr. Amar Patnaik MNIT, Jaipur

Dr. R. K. Prasad NIT, Jamshedpur

Dr. L. Prasad, NIT, Jamshedpur

Dr. A. K. Prasad NIT, Jamshedpur

Dr. A. Satapathy NIT, Rourkela

Dr. S.S. Mohapatra NIT, Rourkela

Dr. Gulshan Sachdeva NIT, Kurushetra

Dr. S. Mondal Jadavpur University, Kolkata

Dr. D. Dhupal VSSUT, Burla

Dr. C. R. Deo VSSUT, Burla

**Dr. B. C. Routra** KIIT, Bhubaneswar

Dr. K. B Sahu KIIT, Bhubaneswar

Dr. P. C. Jena VSSUT, Burla

Dr. S. R. Das VSSUT, Burla

Dr. C. P. Mohanty VIT, Vellore

**Dr. S. Rout** CVRCE. Bhubaneswar

Dr. Mahesh Bundele BE, ME, Ph.D. Director Director Engineering College of Engineering ISI-8, FILICO Institutional Area Mr. Priyank Garg ASHRAE India Chapter

Mr. K. K. Mitra ASHRAE India Chapter

Mr. Indrajeet Bhattacharya ASHRAE India Chapter

Mr. Sunil Bajaj ASHRAE India Chapter

#### **Local Organising committee**

Dr. Hemat Kumar Gupta Professor, ME, PCE

Mr. Rajeev David Proctor-in-Chief, PCE

Mr. Punit Shukla Registrar, PCE

Dr. Virendra Sangtani HOD, EE, PCE

Dr. Ajay Khunteta HOD, CS, PCE

Mr. Amol Saxena HOD, IT, PCE

Dr. Garima Mathur HOD, ECE, PCE

Mr. Md. Tarique HOD, Civil, PCE

Mr. Shirish Nagar HOD, Ist Year, PCE

### **Local OrganisingMembers**

Dr. Jayant Kishor Purohit ME, PCE

Dr. Robin Gupta ME, PCE

Mr. Peeyush Vats ME, PCE

Mr. Bhavesh Devra ME, PCE

Mr. Amit Mandal ME, PCE

Ms. Asha Kumawat ME, PCE

Mr. Yogesh Mishra ME, PCE

Mr. Praveen Tyagi ME, PCE

Mr. Rizwan Khan ME, PCE

Mr. Dhananjay Kumar ME, PCE

Mr. Ashish Dubey ME, PCE

Mr. Sagar Kumar ME, PCE

Mr. Prashant Mishra ME, PCE

Mr. Prince Dawar ME, PCE

Dr. Mahesh Bundele BE. M.E. Ph.D. Director Engineering Peornima College of Engineering ISI-0. FIIICO Institutional Area

#### **KEYNOTESPEAKERS:**

SN	Name	Paper	Confirmation
1	Dr Bruce D Humm	Best Practice for Evaluating and Improving the Performance of Commercial Buildings	Yes
2	Dr SC Bhaduri	Impact of Kigali amendment on refrigeration industry	Yes
3	Dr Jyotirmay Mathur	Radiant Cooling	Yes
4	Mr. Sameer Maithel	Energy Efficient Building Envelope for Residential Buildings	
5	Mr. Kanagraj Ganeshan	Low Energy Cooling Systems	Yes
6	Mr. Neeraj Arora, Senior Director, ASSOCHAM	Green Building – Stop Nature being a Historical topic	
7	Dr. Jorge E. Hernandz	Latest Developments in the HVAC world	Video Conferencing

#### **Brief profile of Chief Guest:**



Dr. Bruce D. Hunn is a consultant in building energy analysis residing in Raleigh, NorthCarolina, USA. He is the former Director of Technology/Director of Strategic TechnicalPrograms at ASHRAE (1997-2010) in Atlanta, Georgia, and continues as an activetechnical volunteer with ASHRAE. He chairs Technical Committee 7.6 on BuildingEnergy Performance and is a member of Standard Project Committee 211 (Standard forCommercial Building Energy Audits) and a consultant to the Building Energy QuotientCommittee. He is an ASHRAE Fellow, Life Member and ceipient of the DistinguishedService Award. Dr. Hunn holds BS, MS, and Ph.5 Agree in the Committee and Engineeringfrom Stanford University and a BA in Engineering from the iniversity and Redlands.

Hunn has authored or co-authored more than 110 articles, technical papers, along with eight books or chapters.

## Best Practice for Evaluating and Improving Commercial Building Performance

This presentation describes the implementation procedures for the performancemeasurement protocols documented in the 2012 ASHRAE publication PerformanceMeasurement Protocols for Commercial Buildings: Best Practices Guide. This how-toguide provides practical steps and tools for continuously monitoring, evaluating, andimproving the performance of commercial buildings throughout their service life. Itsupports integrated commissioning and all activities of the O&M team to ensure that theirbuildings are green, energy efficient, highly productive, and healthy. A process and toolsare provided to quantitatively evaluate building performance at three levels of application. Examples of applications to the ASHRAE Headquarters Building are presented.

#### CONTENTDELIVERY/PRACTICALSESSIONS:













## **GLIMPSESOFPRESENTATIONS:**













# LISTOFPARTICIPANTS:

		ALL VENUES-POORNIMA COLLEGE OF ENGINEERING TECHNICAL SESSION I (FACULTY CO-ORDINATOR-	DATE-08-04- 2018		
		YOGESH MISHRA)			
S No	PAPER ID	TITLE	AUTHORS	TIMING	VENUE
			Nishant		
1	ICARES-	Simulation and Performance Analysis	Wadhwa,	09:45-	
1	2018/01	of Shell and Tube Heat Exchanger	Geetanjali	10:00AM	
			Raghav		
			Zoe Dickson,		
			Marc		
2.	ICARES-	A Review of Variable Refrigerant Flow	Armitage,	10:00-	
2	2018/02	Systems (VRF)	Ritvik Mathur,	10:15 AM	
			Shailendra		
			Kasera		
3	ICARES- 2018/03	Thermal Performance Analysis of the Pulsating Heat Pipe for Hybrid Vehicle Applications	Surajit Che Trus, Dr. Ashok K	inesh Bi 10: B.E. Director College of College  Engineerir Honal Area	

		T	D., C C1 : 1 :		1
4	ICARES- 2018/04	Energy Performance Evaluation of R600a as a Drop-In Substitute for R134A	Prof. Shishir Chandra Bhaduri, Shailendra Kasera	10:30- 10:45 AM	
5	ICARES- 2018/05	Use Of Green Energy for Smart City: a Review	Yogesh Mishra, Gaurav Kumar, Bhawani Singh	10:45- 11:00 AM	CG-05
6	ICARES- 2018/06	Generation of Electricity using Human Power	Chetan Khemraj, Abhisekh Singh, Neeelam Singh, Sushma Barahate	11:00- 11:15 AM	
7	ICARES- 2018/07	Performance Of Collector Parameters for Three Sides Artificially Roughened Solar Air Heaters	Dr. Ashwini Kumar Dr. Arun Kumar Behura Dr. Ravi Kumar	11:15- 11:30 AM	
8	ICARES- 2018/08	Analysing Effects Of Cracks on Natural Frequency and Vibrations in Cantilever Beam by FEM And FFT	Sanjay Kumawat, Arvind Singh Mirola, Atul Sharma	11:30- 11:45 AM	
9	ICARES- 2018/09	A Review On Hybrid Air Conditioning System	Deepak Singh, Prof.(Dr) Ravi Goyal	11:45- 12:00 PM	
10	ICARES- 2018/10	Issues in the Automative Parts Remanufacturing Industry-A Discussion	Digvijay Singh Nirwan, Devesh Pratap Singh, Ankur Agrawal	12:00- 12:15 PM	
		TECHNICAL SESSION II			
		TECHNICAL SESSION II			
		(FACULTY CO-ORDINATOR- BHAVESH DEVRA)	(A)	A DI	undele
11	ICARES- 2018/11	Basic Study of Steam Turbine	Dheeraj Kumar Dat Singh	DIRECTOR OF THE STATE OF THE ST	Engineering Honal Area

		T	A 11: T7		
	ICARES-	A Study of Automobile Air	Aditya Kumar, Dharma Raj	10:00-	
12	2018/12	Conditioning System	Yadav, Dhruva	10:15 AM	
			Khandal		
		Durantian of Air Dallatian at the Vann	Anshul		
13	ICARES-	Prevention of Air Pollution at the Very Generation and It's Purification: A	Maheswari	10:15-	
13	2018/13	Review	And Chandan	10:30 AM	
		Review	Kumar		
14	ICARES-	Block chain Technology	Anurag Jain &	10:30-	
14	2018/14	Block chain Technology	Sakshi Mishra	10:45 AM	
15	ICARES-	A Comprehensive Review on Small	Amit Mandal	10:45-	AB-05
13	2018/15	Scale Wind Turbines	Ainit Wandai	11:00 AM	AD-03
16	ICARES-	A Review on Dual Clutch Transmission	Anshu Kumar	11:00-	
10	2018/16	A Review on Duar Clutch Transmission	Patel	11:15 AM	
			Asha Kumawat		
	ICARES-	Evaluation of Performance and	, Ankit	11:15-	
17	2018/17	Vibration Analysis Of Annular Disc by	Saharan,	11:30 AM	
	2016/17	Using Finite Element Method	Akshay	11.30 AW	
			Shrivastav		
			Dr. Arun		
	ICADEC	Analysis of Thermal Performance in	Kumar Behura,	11.20	
18	ICARES- 2018/18	Three Sides Artificially Roughened Solar Air Heaters	Dr. Ashwini	11:30-	
			Kumar, Dr.	11:45 AM	
			Ravi Kumar		
			Devesh Pratap		
10	ICARES-	Designation of Tankanalana	Singh,	11:45-	
19	2018/19	Review on 3D Printing Technology	Digvijay Singh	12:00 PM	
			Nirwan		
	ICADEC	Puilding France Circ Indian A.C.	Dinesh Chand	12.00	
20	ICARES-	Building Energy Simulation –A Case	Sharma, Abhay	12:00-	
	2018/20	Study in Composite Climate in India	Raj	12:15 PM	
		TECHNICALSESSION III			
		(FACULTY CO-ORDINATOR-			
		PRAVEEN KUMAR TAGYEE)			
				TIMING	VENUE
21	ICARES- 2018/21	Issues in the Solar Power Air Conditioning-A Discussion	Himanshu Sharma, An Seknawat, Govinion a Parashar	nesh Brook B	tional All

			Dr. J.K.		
22	ICARES- 2018/22	Mass Customized Manufacturing Practices: The Role Of Big Data and Analytics with Multiple Indian Cases	Purohit, Dr. Miland Kumar Sharma, Dr. A.S. Chauhan	10:00- 10:15 AM	
23	ICARES- 2018/23	Introduction to Self Inflating Tyre	Bhartendu Singh, Kapish Sharma	10:15- 10:30 AM	
24	ICARES- 2018/24	Combustion Instabilities in Liquid Propellant Rockets	Prashant Kumar Rawat Rahul Sharma Ashish Dubey	10:30- 10:45 AM	
25	ICARES- 2018/25	Dynamic Hysteresis Scaling of Ferroelectric Hysteresis Parameters of Ceramics	Ankit Kumar, Sudhanshusing h, Shatrughan Singh, Ashok Kumar Yadav	10:45- 11:00 AM	CONFER ENCE HALL
26	ICARES- 2018/26	Thermal Analysis of Rapid Tooling  Mold Integrated with Conformal  Cooling Channels	Sagar Kumar, Vikas Kumar	11:00- 11:15 AM	
27	ICARES- 2018/27	Experimental Investigation of Surfactant Effect on Heat Transfer Characteristics in Non-Boiling Spray Cooling Of Water	Praveen Kumar Tyagi, Dr. Arun Kumar Behura	11:15- 11:30 AM	
28	ICARES- 2018/28	Road Power Generation by Flip Plate  Mechanism- A Discussion	Atal Bihari Bairangi, Parbat Singh, Mohammad Ali	11:30- 11:45 AM	
29	ICARES- 2018/29	Experimental Investigation of Waste Cooking Oil Methyl Esters (Wcome) as Fuel in CI Engine	Chandrashekha r, P. K. Mandal, Ashok Kumar Yadav	11:45- 12:00 PM	
30	ICARES- 2018/30	Issues in the Direct Utilisation of Geothermal Energy- A Discussion	Pawan Kumar, Mohit Pareek, Ball Kishan	12:00- 12:15 PM	
31	ICARES- 2018/31	Fractional integral and beta transform formulas for the extended appell-lauricella hypergeometric functions	Shilpi Jain, Praveen Agarwal O Kiymaz	Director	Indele ME. Ph.D. Engineerin Honal Area
				ALCOHOL: NO WARREN	March 1

		(FACULTY CO-ORDINATOR-			
		DHANANJAY KUMAR)			
				TIMING	VENUE
			Anila Dhingra,		
22	ICARES-	Parity I and	Gaurav Saxena	09:45-	
32	2018/32	Project Loon	& Suman	10:00AM	
			Kumari		
			Iftikhar Ahmed		
22	ICARES-	Exploration of Gmelina Arborea	Khan, S.K.	10:00-	
33	2018/33	Biodiesel as A Fuel for Diesel Engine	Singh, Ashok	10:15 AM	
			Kumar Yadav		
			Sagar Kumar,		
34	ICARES-	Phase Change Materials and Thermal	Shivmani	10:15-	
	2018/34	Energy Storage for Buildings	Kumar	10:30 AM	
			Yogesh		
			Mishra,		
			Bhagraj		
35	ICARES- 2018/35	Advancement in Hydraulic Pumps-A	Choudhary,	10:30- 10:45 AM	
		Review	Ashish Mali,		
			Ashish		
			Agarwal		
		Evolution of Performance and	Asha Kumawat		
36	ICARES- 2018/36	Vibration Analysis of Smart Structures	,Siddhant	10:45-	AB-14
		by Piezoelectric Material	Singh	11:00 AM	
	ICARES-			11:00-	
37	2018/37	Variable Refrigerant Flow- A Review	Madhavendra	11:15 AM	
			Nishant Yogi ,		
	ICARES-	Digital Design and Manufacturing	Himanshu,	11:15-	
38	2018/38	Software and Services on Cloud 2018/38	Shreyansh, Dr.	11:30 AM	
		Fusion 360	Robin Gupta		
			Rahul Sharma,		
			Sambhav		
39	ICARES-	Plastic Bag Disposal Machine"	Saxena, Rishu	11:30-	
	2018/39		Kumar, Vivek	11:45 AM	
			Viswakarma		
			A.Sharma,		
			G.Singh,	1	
40	ICARES-	Eco-Cooler	S.Gupta		indele
	2018/40		T.Sinoba	hesh B	4 E PII.
			R.Gupta	Director	Engineeri Honal Are
	ICARES-	Review on Grain Refinement on A356	Nit Poornima	ICO Institu	PUR
41	2018/41	Aluminium Alloy	Pranish Arora,	12:15 PM	
	2010/41	Aluminum Alloy	Tamsii Aluia,	14.13 F IVI	

Robin Gupta	
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# LIST OF REGISTERED CANDIDATES/LIST OF ATTENDED CANDIDATES

S No	PAPER ID	AUTHORS	TITLE
1	ICARES-2018/01	Nishant Wadhwa,	Simulation and Performance Analysis of Shell
		Geetanjali Raghav	and Tube Heat Exchanger
		Digvijay Singh	
2	ICARES-2018/02	Nirwan, Devesh	Issues in the Automative Parts Remanufacturing
		Pratap Singh, Ankur	Industry-A Discussion
		Agrawal	
		Surajit Choudhury,	Thermal Performance Analysis of the Pulsating
3	ICARES-2018/03	Dr. Ashok K	Heat Pipe for Hybrid Vehicle Applications
		Dewangan	Treat Tape for Tayona volution approximate
		Prof. Shishir Chandra	Energy Performance Evaluation of R600a as a
4	ICARES-2018/04	Bhaduri Shailendra	Drop-In Substitute for R134A
		Kasera	210p 111200000000 101 1112 111
		Yogesh Mishra,	
5	ICARES-2018/05	Gaurav Kumar,	Use Of Green Energy for Smart City: a Review
		Bhawani Singh	
		Chetan Khemraj,	
6	ICARES-2018/06	Abhisekh Singh,	Generation of Electricity using Human Power
0	ICARLS-2016/00	Neeelam Singh,	Generation of Electricity using Human Fower
		Sushma Barahate	
		Dr. Ashwini Kumar	
7	ICARES-2018/07	Dr. Arun Kumar	Performance Of Collector Parameters for Three
,	TCARLS-2010/07	Behura Dr. Ravi	Sides Artificially Roughened Solar Air Heaters
		Kumar	
		Sanjay Kumawat,	Analysing Effects Of Cracks on Natural
8	ICARES-2018/08	Arvind Singh Mirola,	Frequency and Vibrations in Cantilever Beam by
		Atul Sharma	FEM And FFT
9	ICARES-2018/09	Deepak Singh,	A Review On Hybrid Air Conditioning System
9	ICARES-2016/09	Prof.(Dr) Ravi Goyal	A Review on Hybrid Air Conditioning System
		Zoe Dickson, Marc	
10	ICARES-2018/10	Armitage, Ritvik	A Review of Variable Refrigerant Flow Systems
10	1C/ HCL5-2010/10	Mathur, Shailendra	VB
		Kasera	Dr. Mahesh Bundele
11	ICARES-2018/11	Dheeraj Kumar	Basic Study a College thristonal Area
11	ICAINLS-2010/11	Dabhi, Abhay Singh	Poor Filo Ingliant
12	ICARES-2018/12	Aditya Kumar,	A Study of Automobile Air Conditioning System

		Dharma Raj Yadav,	1
		•	
		Dhruva Khandal	
13	ICARES-2018/13	Anshul Maheswari	Prevention of Air Pollution at the Very
		And Chandan Kumar	Generation and It's Purification: A Review
14	ICARES-2018/14	Anurag Jain & Sakshi	Block chain Technology
		Mishra	
15	ICARES-2018/15	Amit Mandal	A Comprehensive Review on Small Scale Wind
13	Terrices 2010/13	7 Willt Walldar	Turbines
16	ICARES-2018/16	Anshu Kumar Patel	A Review on Dual Clutch Transmission
		Asha Kumawat ,	Evaluation of Performance and Vibration
17	ICARES-2018/17	Ankit Saharan,	Analysis Of Annular Disc by Using Finite
		Akshay Shrivastav	Element Method
		Dr. Arun Kumar	
		Behura, Dr. Ashwini	Analysis of Thermal Performance in Three Sides
18	ICARES-2018/18	Kumar, Dr. Ravi	Artificially Roughened Solar Air Heaters
		Kumar	
		Devesh Pratap Singh,	
19	ICARES-2018/19	Digvijay Singh	Review on 3D Printing Technology
1)	10111125 2010/19	Nirwan	Review on 3D Timing Technology
		Dinesh Chand	Duilding Engage Cimpulation A Coop Study in
20	ICARES-2018/20		Building Energy Simulation –A Case Study in
		Sharma, Abhay Raj	Composite Climate in India
		Himanshu Sharma,	
21	ICARES-2018/21	Ankuj Sekhawat,	Issues in the Solar Power Air Conditioning-A
	2010,21	Govind Kumar	Discussion
		Parashar	
		Dr. J.K. Purohit, Dr.	Mass Customized Manufacturing Practices: The
22	ICARES-2018/22	Miland Kumar	Role Of Big Data and Analytics with Multiple
	10111128 2010/22	Sharma, Dr. A.S.	Indian Cases
		Chauhan	indian cases
23	ICARES-2018/23	Bhartendu Singh,	Introduction to Solf Inflating Tyre
23	ICARES-2018/23	Kapish Sharma	Introduction to Self Inflating Tyre
		Prashant Kumar	
24	ICARES-2018/24	Rawat Rahul Sharma	Combustion Instabilities in Liquid Propellant
		Ashish Dubey	Rockets
		Ankit Kumar,	
		Sudhanshusingh,	Dynamic Hysteresis Scaling of Ferroelectric
25	ICARES-2018/25	Shatrughan Singh,	Hysteresis Parameters of Jeramics
		Ashok Kumar Yadav	Amdele
		Sagar Kumar, Vikas	Thermal And v: Markapid B. Jing Mold
26	ICARES-2018/26	Kumar	Integrated with Conform Constitution Case
		Praveen Kumar	Experimental Exper
27	ICARES-2018/27		1
		Tyagi, Dr. Arun	on Heat Transfer Characteristics in Non-Boiling

		Kumar Behura	Spray Cooling Of Water
28	ICARES-2018/28	Atal Bihari Bairangi, Parbat Singh, Mohammad Ali	Road Power Generation by Flip Plate  Mechanism- A Discussion
29	ICARES-2018/29	Chandrashekhar, P. K.  Mandal, Ashok  Kumar Yadav	Experimental Investigation of Waste Cooking Oil Methyl Esters (Wcome) as Fuel in CI Engine
30	ICARES-2018/30	Pawan Kumar, Mohit Pareek, Ball Kishan	Issues in the Direct Utilisation of Geothermal Energy- A Discussion
31	ICARES-2018/31	Anila Dhingra, Gaurav Saxena & Suman Kumari	Project Loon
32	ICARES-2018/32	Iftikhar Ahmed Khan, S.K. Singh, Ashok Kumar Yadav	Exploration of Gmelina Arborea Biodiesel as A Fuel for Diesel Engine
33	ICARES-2018/33	Sagar Kumar, Shivmani Kumar	Phase Change Materials and Thermal Energy Storage for Buildings
34	ICARES-2018/34	Yogesh Mishra, Bhagraj Choudhary, Ashish Mali, Ashish Agarwal	Advancement in Hydraulic Pumps-A Review
35	ICARES-2018/35	Asha Kumawat ,Siddhant Singh	Evolution of Performance and Vibration Analysis of Smart Structures by Piezoelectric Material
36	ICARES-2018/36	Madhavendra	Variable Refrigerant Flow- A Review
37	ICARES-2018/37	Nishant Yogi , Himanshu, Shreyansh, Dr. Robin Gupta	Digital Design and Manufacturing Software and Services on Cloud Fusion 360
38	ICARES-2018/38	Rahul Sharma, Sambhav Saxena, Rishu Kumar, Vivek Viswakarma	Plastic Bag Disposal Machine"

# **SAMPLE COPY CERTIFICATE:**



II ADVANCES IN REFR	nternational Conference on IGERATION & ENER	
	April 7-8, 2018	
THE RESERVE OF THE PARTY OF THE	Department of Mechanical Engineering	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN
ASHRAE	POORNIMA	
India Chapter	to Rajasthan Technical University, Kota & Approved by AICTE, New	y Delhi
This is to certify that Prof./Dr./Mr.,	aipur • Phone: 0141-2770790, 92 • E-mail : info@p <i>Gertificate</i> <sub>/Ms. Asha Kumavat</sub>	poornima.org • www.pce.poornima.org
from JJT University		has participated
as Delegate/Author/Co-author in the I	NTERNATIONAL CONFERENCE ON ADVAN nized by Poornima College of Engineering, Ja	
	volution of performance and Structures by Piezo electr	
(Dr. Arun Kumar Behura) Convener: ICARES -2018	(Mr. Shaffendra Kasera) Convener: ICARES -2018	(Dr. Om Prakash Sharma) Director, PCE
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## FEEDBACKANALYSIS:

Dr. Mahesh Bundele BE. ME. Ph.D. Director Engineering Poornima College of Engineering Plant Ellico Institutional Area Stlapura, Jairus

2	The	organization	of the	conference was?	,

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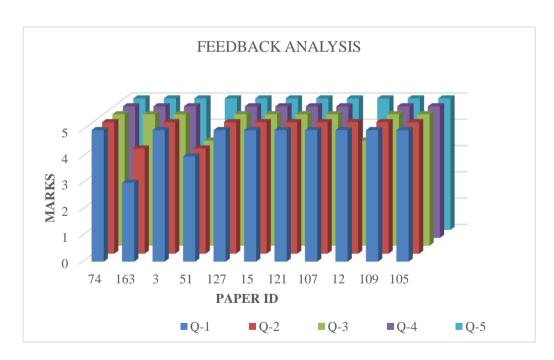
3. Technical Sessions were informative and managed well.

4. How do you rate Keynote Speaker's talk? \*

5. Knowledge sharing during the conference? \*

6. Timely Information sharing with participants, and responses from the organizers

1	2	3	4	5
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**SWOTANALYSIS:** Nil

Dr. Mahesh Bundele B.E. M.E., Ph.D. Director Engineering College of Engineering Peornima College of Engineering ISI-6. Filico Institutional Area

#### **BUDGET&ACTUALS:**

S.No	Heads	Amount
1	Domestic Travel	15000
2	International Travel (not more than 25olo of the total budget)	45000
3	Accommodation	20000
4	Food Expenses for Pa rticiDants	150000
5	Honorarium to Paper Writers	20000
6	Organizational Expenses (including Venue Bookings, Transport. Stationery, Xeroxing, Secretarial assistance, Contingency)	55000
	TOTAL	305000

# PROJECT FUND EXPENDITURES (Given by ASHRAE)

ITEM	BUDGET
Danfoss DC Compressor for R290	\$1000
Solar photovoltaic System (PV array, Charge Controller, Battery, Charge and Discharge meter)	\$1500
Data acquisition system	\$700
Condenser, Capillary tube and evaporator	\$300
Measuring equipments (Thermocouples, pressure transducer, Watt Meter, Pyranometer, Mass flow meter, Environment Chamber)	\$1000
R290 refrigerant, Nano-particle, Milk for testing	\$500
TOTAL	\$5000



#### **ASSOCIATED PROJECT DETAILS:**

#### **About ASHRAE:**

ASHRAE is the premier international body in the HVAC&R field and has more than 50000 members worldwide. The mission of ASHRAE is to advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related human factors to serve the evolving needs of the public and ASHRAE members. It is the foremost and authoritative source of technical and educational information, standards and guidelines. ASHRAE's Core Values are Excellence, Commitment, Integrity, Collaboration and Volunteerism ASHRAE India Chapter (AIC) is the first and oldest (1990) of the ASHRAE Chapters in the country. It has more than 300 ASHRAE members located in North and Eastern India. The Indian chapters belong to Region-At-Large (RAL), the largest of the 14 regions of ASHRAE.

RAL was formed in 2001 and contains individual members and chapters in Europe, Africa, Middle East and the Indian Sub-Continent.

ISHRAE, started at Delhi in 1981 as an International Associate of ASHRAE. It is promoted and funded by the ISHRAE Foundation Trust. ISHRAE focuses on the following areas in order to build the engineers more proficient in field of technology. The objectives of ISHRAE are:

- ✓ Advancement of the sciences of Heating, Refrigerating and Air conditioning Engineering and related Sciences.
- ✓ Providing the career guidance, financial assistance and consultancy services Conduction of Training Courses, Workshops, Seminars and Certifications.
- ✓ Encouragement of Scientific Research with facilities establishment.
- ✓ To impart education in the fields of Air-Conditioning, Refrigeration and Allied Sciences.
- ✓ To disseminate and make available information relating to said sciences through the various publications.

Project Title	Performance analysis of solar operated milk refrigerator using hybrid nanomaterials	
	In this project, an experimental investigation on	
<b>Executive Summary of</b>	performance of solar power driven vapor compression	
Project (Brief Description not	milk refrigerator with R290 refrigerant using hybrid	
exceeding 50 words)	nanomaterials will be carried out in high ambient	
	conditions. It is based on the concept of Variable	
	Refrigerant Flow (VRF).	
Project Details  Project Details		
Objective: • Use of solar DC power to run the milk refrigera		

• Performance assessment of solar DC operated milk refrigerator using hybrid nanomaterials and R290 base fluid

**Outcome of the proposal:** Various performance parameters i.e. coefficient of performance, cooling capacity, energy consumption, PV efficiency of Milk refrigerator will be investigated using various combination of nanomaterials i.e.Al<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub> – CuO, Al<sub>2</sub>O<sub>3</sub> – ZnO using R290 base fluid

- •This project will promote the use of renewable energy (solar) and simultaneously solve the global issues i.e. ozone depletion and global warming.
- •Energy efficient refrigeration facility can be made available for rural areas that are not connected to the grid.

**Work Plan:** In this project, performance test will be carried out in an experimental apparatus that consists of two loops: Solar Photovoltaic loop and Refrigeration loop. Solar Photovoltaic loop consists of Stand-alone solar Photovoltaic system which fundamental components are given below:

- Solar photovoltaic panels of capacity 2kW
- Charge controller
- Lead acid battery bank of 200 AH

Crystalline silicon solar photovoltaic cell is chosen due to its higher conversion efficiency from solar irradiance to electricity. The solar panel with available rated voltage at 17.5 V was selected taking consideration of 12 V from a battery. Charge controller is an essential part of solar PV system. It is necessary to avoid frequent over-charging and over-discharging to maintain the battery in proper operation condition, which is required for battery to last for longer lifetime. The function of the battery in this project is to store the electrical energy generated from Solar PV when it can provide more energy than that required for the load. If PV electricity is not available due to fluctuation of irradiation, the battery can provide the electrical energy.

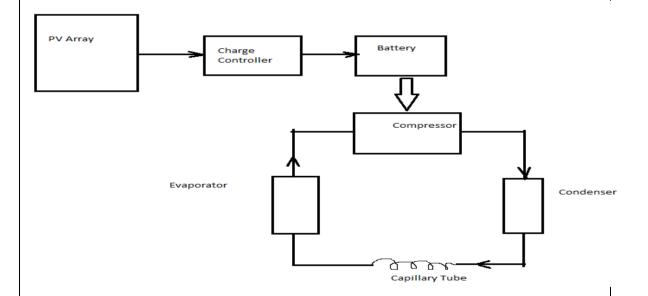
Refrigeration loop consists of vapor compression cycle which fundamental components are given below:

- DC compressor compatible with R290 refrigerant (12-24 volts, 500 W energy consumption)
- Air Cooled Condenser
- Capillary tube
- Evaporator

DC compressor provides a "soft-start" which means that the typical startup surge of an AC compressor running on an inverter is eliminated. A normal AC compressor will draw up to 500% more amps on startup, meaning that when running on an inverter, the inverter must be oversized accordingly. Oversized inverters are much less efficient. The DC compressor not only avoids needing an inverter, they also minimize the surge or spike at time of startup.

The test facility provides the thermodynamic state of refrigerant along with the various system parameters using following instruments

- T- Type Thermocouple with a temperature range of -270-200°C
- Pressure transducer with a range 0-30 bar
- Digital Watt meter to measure the power in the range of 0-3kW
- Coriolis-effect mass flow meter operating in the range of 0-2 kg/min
- Pyranometer to measure the solar irradiation



## Preparation of Hybrid nanorefrigerant:

Nanorefrigerant is one kind of nanofluids, in which the host fluid is conventional pure refrigerant. The term hybrid refers to two different types of Nanomaterial. Nano particle of Al<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub> – CuO, Al<sub>2</sub>O<sub>3</sub> –ZnO will be mixed in R290 with concentration from 0.01-0.05 wt%. It will be measured by digital weight balance. Ultrasonication will be done for 4 hours in order to stabilize the dispersion of the nanoparticle.

#### **Testing:**

The primary operating principle of present system is as following wer generated by PV array is higher than the chiller power, the climer is completely operated

by PV array while the excess power generated by PV array is stored in the battery bank. When the PV generated power is less than the load power of refrigerator, the power required by the load is provided by PV array and battery simultaneously. When the PV generated power is zero, as in the evening, the battery may power the refrigerator completely.

One objective of this work is to evaluate the efficiency of different components in the system using above mention Hybrid nanorefrigerant. Photovoltaic array is used as the energy source in present system. Hence, it is important to find out the PV efficiency.

The average PV conversion efficiency is defined as the ratio of total energy delivered from the photovoltaic array to the energy of the solar radiation on the PV.

$$\eta_{pv} = \frac{E_{pv}}{E_{sol}}$$

where  $E_{pv}$  is the electricity generated by the PV array, and  $E_{sol}$  is the energy of solar radiation.

State of discharge of battery bank is defined as the ratio of remainder power of battery bank ( $E_r$ ) to the maximum power discharged by battery banks ( $E_{max}$ ).

$$SOC = \frac{E_r}{E_{Max}}$$

Performance of refrigerator is given by Coefficient of performance, which is ratio of desired output, by required input.

$$COP = \frac{Q_c}{W_{in}}$$

Where  $Q_c$  is desired cooling and  $W_{in}$  is power input to compressor.

Desired cooling is calculated by  $Q_c=mc_p$  ( $T_i-T_f$ ) where m is mass of milk,  $C_p$  is specific heat of milk,  $T_i$  is initial temperature of milk and  $T_f$  is final temperature of milk.

Similarly, Solar Coefficient of Performance is given by

$$COP_{solar} = \frac{Q_c}{E_{sol}}$$

Solar Fraction (SF) is defined as the ratio of the electrica solar by the solar

energy to the total electrical energy used to drive the refrigerator.

Solar Direct Consumed Ratio (SDCR) is defined as the ratio of the electrical energy directly used by the refrigerator generated by PV to the total electrical energy generated by PV. When SDCR is higher, the battery storage capacity can be reduced.

#### **Result and Analysis**

Following performance parameters of solar milk refrigerator will be calculated for different ambient conditions and Hybrid nanorefrigerant

- i. COP
- ii. COPsolar
- iii. PV Efficiency
- iv. State of discharge of battery bank
- v. Solar Fraction
- vi. Solar Direct Consumed Ratio
- vii. Cooling capacity
- viii. Energy consumption

#### **Time Schedule**

S.No	Activity	No of Weeks
1.	Procurement of Material	10
2.	Assembly	2
3.	Testing for different ambient conditions	52
4.	Result and Analysis	4
5.	Report/paper writing	4
	Total	72

#### Involvement of students and guide

S.No	Students/Guide	Responsibility Nahesh But Ph.O.
1	Students	Fabrication and Testing
2	Guide	Design and Managen

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