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List of National and International Conference Report

(2017-18 to 2021-22)

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 Adv. in Refrigeration & & Energy Systems	2017-18	7-8/04/2018	190-222

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: https://iopscience.iop.org/journal/1755-1315/page/scope
Indexing:https://www.scopus.com/sourceid/19900195068

Special Issue (Direct Submission)

Name: Environmental Science and Pollution Research (ESPR)
Website:https://www.springer.com/journal/11356/ (Electronic ISSN 1614-7499)
Scope: Environmental Science and Pollution Research | Aims and scope (springer.com)
Indexing:https://www.scimagojr.com/journalsearch.php?q=23918&tip=sid&clean=0

THEMES / TRACKS:

Track 1: Sustainable/Renewable Energy	
Alternative Fuels	Internal Combustion Engines Performance with Bio-Fuels
Bio-Energy, Biomass, and Bio-Fuels	Renewable Energy Supply and Technologies
Energy Conservation Technologies	Solar Photovoltaic Technology
Energy Forecasting and 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 Material	Intelligent Transport, Smart Traffic Control
Climate Change and the Urban Environment	Low Carbon Economy and Society
Construction Technology and Equipment	Remote Sensing and Gis
Disaster and Supply Chain Management	Road and Bridge Engineering
Environment Impact Assessment	Solid Waste Management
Environmental Engineering and Management	Surface and Ground Water Studies
Global Warming and Greenhouse Gas Mitigation	Sustainable Transportation Infrastructures
Greenhouse Effect and Climate Change	Transportation Safety
Highway Design and Safety Measures, Mega Structure Design	Wastewater Management and Treatment

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

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 (IST)	EVENT	GUEST/SPEAKER/HOST	Session Link (MS Teams)/Venue
8:30 AM–9:00 AM	**Registration and Gathering of Participants**		
9:00 AM–9:45 AM	**Inaugural Ceremony**	**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/ICSEEGT-2022**
9: 45AM-10:15 AM	**Session Break**		
10:15 AM-11: 00AM	**Keynote 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/ICSEEGT-2022**

Time	Session	Details	Link
		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	
11:45 AM-12:15PM	*Session Break*		
12:15 PM-2:15 PM	**Technical 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
	Technical 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
	Technical 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	**Keynote 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*	https://tinyurl.com/ICSEEGT-2022

TIME (IST)	EVENT	GUEST/SPEAKER/HOST	Session Link (MS Teams)
		College of Engineering, Jaipur, India	
3:15 PM-4:00 PM	**Keynote Session-III**	**Title:** *Noble Metal-Free Electrocatalysts for Oxygen Reduction Reaction in Low-Temperature Fuel Cells*	
		Speaker: Dr. Wong Wai Yin, Research Fellow, and Senior Lecturer, Fuel Cell Institute, Universiti Kebangsaan, Malaysia *Moderator: Dr. Monika Vardia, Poornima College of Engineering, Jaipur, India*	**https://tinyurl.com/ICSEEGT-2022**

DAY-II, SATURDAY, JUNE 25, 2022

TIME (IST)	EVENT	GUEST/SPEAKER/HOST	Session Link (MS Teams)
8:30 AM - 9:15 AM	**Keynote Session-IV**	**Title**: *Hydrometeorological Disasters as a Consequence of Climate Change* **Speaker: Dr. Arindam Dey**, Department of Civil Engineering & Center for Disaster Management and Research (CDMR), Indian Institute of Technology Guwahati, India **Session Host:** *Mr. Kalpit Jain, Poornima College of Engineering, Jaipur, India*	**https://tinyurl.com/ICSEEGT-2022**
9:15 AM-9:30 AM	*Session Break*		
9:30AM - 11:30 AM	**Technical Session-V**	**Session Chair: Dr. Pankaj Dumka,** Jaypee University of Engineering and Technology, Guna, India **Moderator:** *Dr. Surendra Kumar Saini, Poornima College of Engineering, Jaipur, India*	**https://tinyurl.com/TS-5-ICSEEGT-2022**

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Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

	Technical Session-VI	**Session Chair: Dr. Pradeep Kumar Gautam,** National Institute of Technology Meghalaya, India **Moderator:** *Mr. Divya Vishnoi, Poornima* *College of Engineering, Jaipur, India*	**https://tinyurl.com/ TS-6-ICSEEGT-2022**
	Technical Session - VII	**Session Chair (s): Dr. Narayan Lal Jain and Dr. Pran Nath Dadhich,** Poornima College of Engineering, Jaipur, India **Moderator:** *Mr. Sanjay Kumwat, Poornima* *College of Engineering, Jaipur, India*	**https://tinyurl.com/ TS-7-ICSEEGT-2022**
11:30 AM -11:45 AM		*Session* *Break*	
11:45AM - 12:30 PM	**Keynote Session-V**	**Title:** *Sustainable Livelihoods and Adaptation to Climate Change*	
		Speaker: Dr. Ravindra S. Gavali, Head, Centre for Natural Resource Management, Climate Change & Disaster Mitigation (CNRM, CCC&DM), National Institute of Rural Development & Panchayati Raj, Hyderabad, India	**https://tinyurl.com/ICSEEGT-2022**
		Session Host: Mr. Rahul Sharma, Poornima **College of Engineering, Jaipur, India**	
12:30 PM-1:00 PM		*Session Break*	
1:00 PM – 1:45 PM	**Keynote Session-VI**	**Title:** *Hydrogen as a Future Fuel*	
		Speaker: Dr. Dilip Sharma, Malviya National Institute of Technology, Jaipur, India **Session Host:** *Mr. Kalpit Jain, Poornima College of Engineering, Jaipur, India*	**https://tinyurl.com/ICSEEGT-2022**
2:00 PM-2:30 PM		*Session Break*	

2:30 PM-3:15 PM	Valedictory Ceremony	**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 Ramulu**, Director, Centre of Excellence for Advanced Manufacturing Engineering, Adama Science & Technology University Adama, Ethiopia **Session Host(s):** *Dr. Pooja Gupta and Mr. Sanjay Kumawat, Poornima College of Engineering, Jaipur, India*	https://tinyurl.com/ICSEEGT-2022

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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 moderated Dr. Monika Vardia from Poornima College of Engineering.

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

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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, Bombay, India

- **Dr. K.S. Reddy,** Professor, Indian Institute of Technology, Madras, India

- **Dr. Avinash Kumar Agarwal,** Professor, Indian Institute of Technology, Kanpur, 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, Iraq

- **Dr. Anil Kumar Sharma**, National Institute of Technology Patna, India

- **Dr. Anjali Peter,** Apex University, Jaipur, India

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- **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 Engineering, Nagpur, India

- **Dr. Rashmi Kumari,** National Institute of Technology Hamirpur, India

- **Dr. Richa Jagatramka,** Manipal University Jaipur, India

- **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

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- **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 Bharatpur, India

- **Mr. Vishwa Deepak Kumar,** Indian Institute of Technology Jodhpur, India

- **Ms. Behnaz Shirdel,** Islamic Azad University, Tabriz Branch, Tabriz, Iran

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=t3xOL00AAAAJ&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. She is active in organizing conference/symposium/workshop with various roles such as chairperson, co-chair, and deputy chairman and committee members since she joined as an academician. She is currently acting as the vice chairman for hydrogen working group on developing fuel cell technology related technical codes, under the malaysia

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/
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 25th 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 sub-chapter. 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. In 2020, he appeared in the **World's Top 2 % Scientist published by Stanford University**, USA report. He has won **BIRAC- Innovation Challenge Award-SoCH 2020-21 for stage – 1 and stage – 2**. He was honoured with an award of Outstanding Engineering service to country by the Institution of Engineers (India), Rajasthan state centre on 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 TALK	Hydrometerological Disasters as a Consequence of 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=pWKr2M0AAAAJ&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 1002nd 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=Qqk=

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 bodies working in the field of Innovations.

He was a member of Technical committee for finalizing the specifications 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
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 including, National Committee of India-IIASA (Technology and International Institute for Applied 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, USA	ICSEEGT2022_T3_3152
BRIEF 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 B-1 on Thermodynamics and Transfer Processes of the International Institute of Refrigeration, a Member of the Advisory Board of Directors of the International Association for Hydrogen Energy, and a Founding Member of the Board of Directors 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 past Book Review Editor of ASME's Applied Mechanics Reviews (2001-2008). He is on the editorial boards of 22 other thermal science journals such as Applied Thermal Engineering, Heat Transfer – Asian Research, the International Journal of Exergy, and the

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 Energy Studies, 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 eco-conscious in his research models aiming at sustainable growth and development he has been rather passionate about the use of Biodiesel extracted from several Indian non-edible 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 three wheelers were demonstrated during Auto-expo 2012 in New Delhi.

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Director
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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 Abhiyan and the State Specific Action Plan for Water launched by the Ministry of Jal Shakti, Government of India. He is also a Key Resource Person for the Jal Jeevan Mission. He is being honored with the title "Swachhta Hero" of Roorkee for his involvement

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

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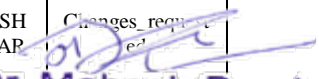
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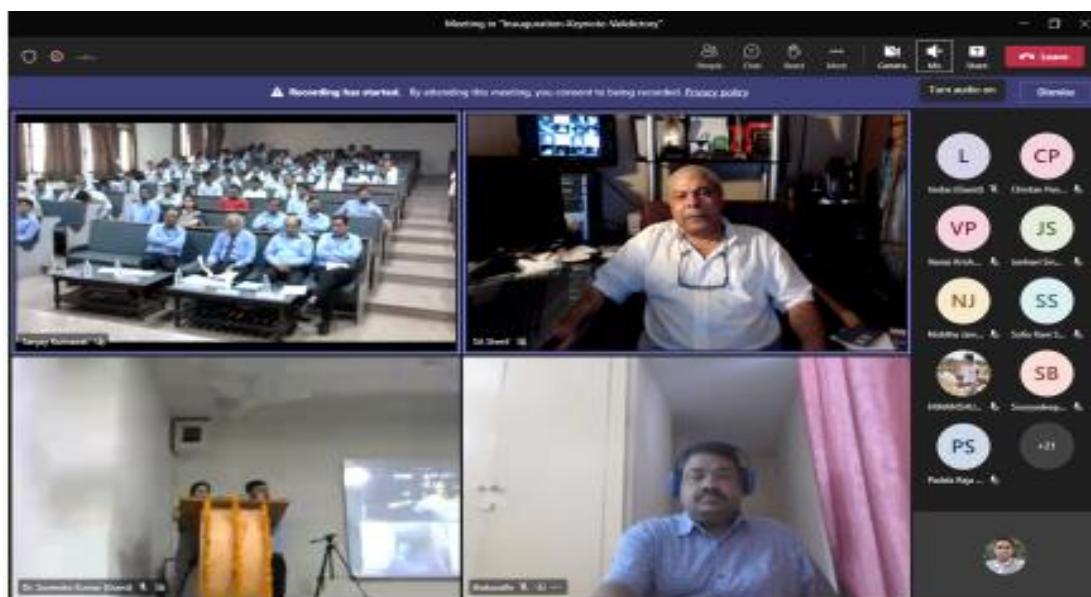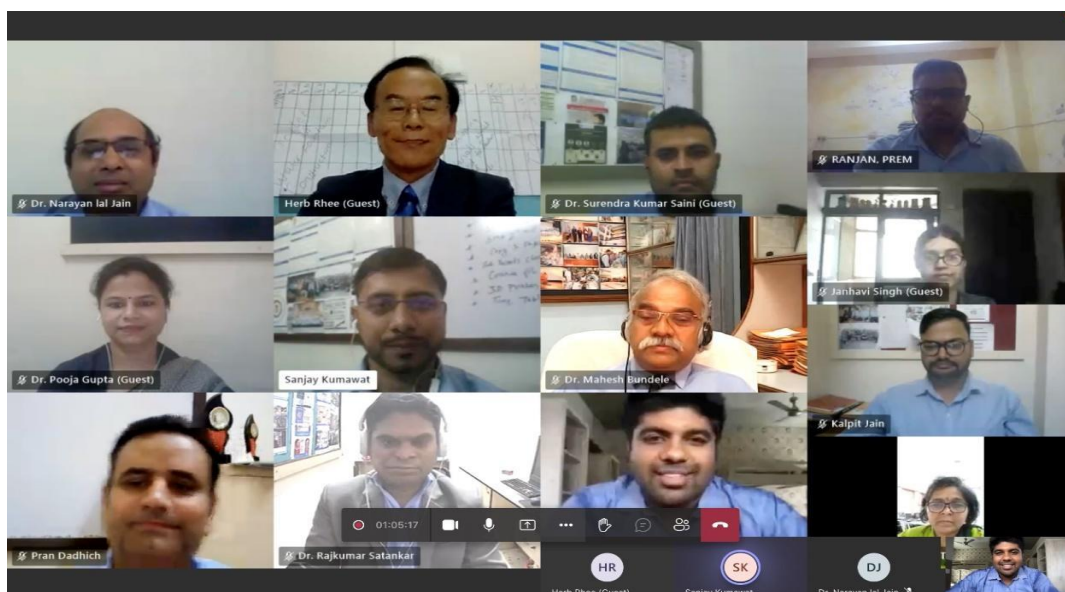
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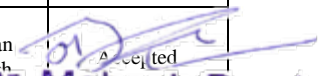
Paper ID	Title	First Author Name	First Author Email	First Author Affiliation	Reviewed at	Reviewer Name	Decision
1	AAC Blocks an Innovation as Eco-friendly Material in Construction	Dr. Pooja gupta	Pooja.gupta @poornima. org	Poornima College of Engineering, Jaipur	2022-04-07 09:32:14+0000	Raj	Rejected
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	Anjaly J Pillai	Accepted
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	2022-04-29 09:04:07+0000	VIKASH KUMAR	Changes_requ ed

	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 l750@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 l750@gmail. com	Galgotias University	2022-05-24 08:02:52+0000	Sohil Sisodiya	Accepted
15	Experimental Investigation of Direct Injection Diesel Engine using Waste Plastic	Jatadhara G S	Jatadhara@s it.ac.in	Siddaganga Institute of Technology	2022-05-14 17:25:26+0000	SHYAM	Accepted

	oil as fuel					
16	A case study on indore brts with reference to other indian cities	Jayati singh	Jayatisingh97@gmail.com	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.shahbaz344@gmail.com	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.shahbaz344@gmail.com	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.vashishtha98@gmail.com	Galgotias University	2022-05-24 12:32:50+0000	Akashdeep Dey	Accepted
22	A study of on-street parking vehicle in sonipat city	Harivansh kumar chaudhary	Harivanshbiet@gmail.com	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	Sivagurunathan Paramasivam	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	Harivanshbiet@gmail.com	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+0000	Amit Madhanrao Kharwade	Accepted
34	Standard Operating Procedure for Assessment and Rating of National	Sunil sharma	Sunils@nith.ac.in	National Institute of Technology Hamirpur, India	2022-05-20 06:03:34+0000	Karan Singh	Accepted

	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	Shiromichaturvedi@gmail.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	Prem009ranjan@gmail.com	North Eastern Regional Institute of Science and Technology	2022-05-17 06:05:17+0000	Ahmed Albahnasawi	Accepted
37	Spring Water Management to Ensure Long Term Sustainability in North Eastern Regions of India	Prem ranjan	Prem009ranjan@gmail.com	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	Harleen261292@gmail.com	Guru Nanak Dev University	2022-05-09 18:01:24+0000	RAHUL KANAOUJIYA	Rejected
38	Green Healthcare- Bandwagon to Environmental Sustainability	Dr. Harleen kaur	Harleen261292@gmail.com	Guru Nanak Dev University	2022-05-23 10:51:56+0000	Dr Biswajit Acharya	Rejected
39	Challenges Related to Flexible Manufacturing Systems	Kaustubh purushottam sakhare	Kaustubhpurushottamsakhare_2k18me111@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.ac.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	Shaileshmbm@gmail.com	MBM UNIVERSITY JODHPUR	2022-05-23 10:40:31+0000	Dr.Prarthita Basu	Accepted
42	Durability Characteristics of Recycled Aggregates for Physical and Chemical Properties of	Dr. Shailesh choudhary	Shaileshmbm@gmail.com	MBM UNIVERSITY JODHPUR	2022-05-05 07:47:15+0000	K I SYED AHMED KABEER	Accepted

	Concrete					
45	Analysis of different buffer layers on cuo based solar cells using SCAPS-1D.	Chandni tiwari	Chandnitiwari.ece@geu.ac.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 kawathekar thakare	Kalpana@students.vnit.ac.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 kawathekar thakare	Kalpana@students.vnit.ac.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 kawathekar thakare	Kalpana@students.vnit.ac.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	Bablusahoo1992@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@students.vnit.ac.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.kamboj44@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.kamboj44@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.havaldar@mitwpu.edu.in	Dr. Vishwanath Karad World Peace University	2022-05-22 13:26:09+0000	Amit Shrivastava	Accepted
55	Numerical investigation of concentrated solar central billboard with hexagonal tubes	Sanjay N. Havaldar	Sanjay.havaldar@mitwpu.edu.in	Dr. Vishwanath Karad World Peace University	2022-05-05 10:02:10+0000	Vishwa Deepak Kumar	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	

	regression and artificial neural network to predict the energy consumption of residential buildings			Hamirpur		Jain	
59	Organic farming in the tropical, disaster-prone coasts: interventions, major challenges and success story from Sundarban Biosphere Reserve, India	Aliya naz	Naazaliya6@gmail.com	Indian Institute of Technology Dhanbad	2022-05-24 18:32:15+0000	Anjali peter	Accepted
60	Sustainable Energy Business Model and Strategies for Marketing of Solar Products in Rural Areas of Odisha	Dr. Shiv sankar das	Shivsankardas85@gmail.com	Zenith School of Management	2022-04-29 10:37:55+0000	Manoj Dubey	Accepted
60	Sustainable Energy Business Model and Strategies for Marketing of Solar Products in Rural Areas of Odisha	Dr. Shiv sankar das	Shivsankardas85@gmail.com	Zenith School of Management	2022-05-09 18:12:41+0000	Dr. Richa Jagatramka	Accepted
60	Sustainable Energy Business Model and Strategies for Marketing of Solar Products in Rural Areas of Odisha	Dr. Shiv sankar das	Shivsankardas85@gmail.com	Zenith School of Management	2022-05-09 09:42:46+0000	Pankaj Dumka	Accepted
61	Performance evaluation of the Absorbing Plate of a Hybrid Solar Dryer for Potato Drying	Dr. Shiv sankar das	Shivsankardas85@gmail.com	Zenith School of Management	2022-04-29 09:42:10+0000	VIKASH KUMAR	Accepted
61	Performance evaluation of the Absorbing Plate of a Hybrid Solar Dryer for Potato Drying	Dr. Shiv sankar das	Shivsankardas85@gmail.com	Zenith School of Management	2022-05-14 08:23:38+0000	SHYAM A	Accepted
64	Hydro-biological assessment of small Water Harvesting Ponds (Talabs&Nadis) of Western Rajasthan Using Physico-chemical Characteristics and Phyto-planktonic Indices	R singh	Chemdrranveersingh2015@gmail.com	M.L.B. Govt College, Nokha (Bikaner), Rajasthan	2022-05-19 07:09:43+0000	Ahmed Albahnasawi	Rejected
64	Hydro-biological assessment of small Water Harvesting Ponds (Talabs&Nadis) of Western Rajasthan Using Physico-chemical Characteristics and Phyto-planktonic Indices	R singh	Chemdrranveersingh2015@gmail.com	M.L.B. Govt College, Nokha (Bikaner), Rajasthan	2022-05-24 09:36:08+0000	N R N V GOWRIP ATHI RAO	Rejected
65	An Investigation of Sick Building Syndrome (SBS) affecting health of occupants in Western Maharashtra, India.	Amol digambar pawar	Apawar@ms.nicmar.ac.in	NICMAR Pune	2022-05-28 06:46:29+0000	Ashish Solanki	Rejected
67	Hydrogeologic evaluayion of area around nokha,	Dr. Priyanka pandey	Dr.priyankapandey1981@gmail.com	Sangam University bhilwara	2022-05-26 02:28:56+0000	Pradeep K Gautam	Accepted

	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+0000	MAHEN DRA KUMAR SINGAR	Accepted
75	Driving through sustainable systems: A Study of Air Quality	Seema	Seemagarg1 @gmail.com	Amity University	2022-06-08 08:41:26+0000	Chander Prakash	Accepted

	Index of Delhi During COVID-19 Pandemic					
76	Energy, geopolitics and the dying arctic ice fields: an enviro- political perspective	Dr. Abhiroop chowdhury	Abhiroop.chowdhury@gmail.com	O. P. Jindal Global University	2022-05-20 10:21:22+0000	RAMKIRAN B	Accepted
76	Energy, geopolitics and the dying arctic ice fields: an enviro- political perspective	Dr. Abhiroop chowdhury	Abhiroop.chowdhury@gmail.com	O. P. Jindal Global University	2022-05-19 07:13:23+0000	Ahmed Albahnasawi	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.asmitayadav@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	Pvkprasad029@gmail.com	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.kochhar.12@gmail.com	Banasthali University	2022-05-09 18:25:27+0000	Dr. Richa Jagatramka	Accepted
81	The need for legislation on renewable energy for sustainable development in india	Dr khyati kochhar	Khyati.kochhar.12@gmail.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.jain@jaipur.manipal.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.jain@jaipur.manipal.edu	Manipal University Jaipur	2022-05-27 05:57:19+0000	Sivagurunathan Paramasivam	Accepted
84	Effect of Pozzolanic Material on Drying Shrinkage Characteristics of Blended Cementitious Mortar	Nitesh balaji thikare	Nthikare7391@gmail.com	Rashtrasant Tukadoji Maharaj Nagpur University	2022-05-31 06:38:26+0000	KULDEEP KAMBOJ	Accepted
85	Tainted wastewater remediation through inverted multimedia biofilter	Dr. Ranjit N. Patil	Shaliniy19755@gmail.com	Priyadarshini Bhagwati College of Engineering, Nagpur	2022-05-10 20:30:30+0000	Ali Fadhil Naser	Accepted
85	Tainted wastewater remediation through inverted multimedia biofilter	Dr. Ranjit N. Patil	Shaliniy19755@gmail.com	Priyadarshini Bhagwati College of Engineering, Nagpur	2022-05-09 09:40:17+0000	Pankaj Dumka	Accepted
86	Urban Organic	Nirjhar	Nirjhargupta	UIT- RGPV	2022-05-09		

	Title	Author	Email	Institution	Date	Reviewer	Status
	Waste as a Source of Bioenergy for Electricity Generation in Bhopal (M.P)	gupta	070@gmail.com		09:37:26+0000	Dumka	
86	Urban Organic Waste as a Source of Bioenergy for Electricity Generation in Bhopal (M.P)	Nirjhar gupta	Nirjhargupta070@gmail.com	UIT- RGPV	2022-05-15 03:34:10+0000	Basuraj Bhowmik	Accepted
88	Strength and durability of concrete by partial replacement of sand by Copper Slag and cement by Egg Shell Powder: A Review	Mr.dhiraj ramesh naxine	Naxinecivil@gmail.com	G H RAISONI UNIVERSITY, AMRAVATI	2022-05-17 03:34:52+0000	Abhishek Jain	Accepted
88	Strength and durability of concrete by partial replacement of sand by Copper Slag and cement by Egg Shell Powder: A Review	Mr.dhiraj ramesh naxine	Naxinecivil@gmail.com	G H RAISONI UNIVERSITY, AMRAVATI	2022-05-25 05:00:33+0000	Dr. P. Kavipriya	Accepted
89	Life Cycle Costing Methodology for Sustainable Construction	Mustafa soyab sadliwala	Msadliwala97@gmail.com	MIT World Peace University Pune	2022-06-07 09:52:49+0000	Dr. Akshay Jain	Accepted
90	Utilization of Silica Fume and Fly ash in Cement and Partial Substitution of Fine Aggregate Using Quarry Dust in Concrete	Mr.sudhir kapgate	Kapgate.sudhir68@gmail.com	G H Raisoni University,Amravati	2022-06-13 05:07:53+0000	Dr. Akshay Jain	Accepted
91	Lowcost renewable feedstock an important source for sustainable Biofuel Production	Dr(mrs)susmita shukla	Sshukla3@amity.edu	Amity University	2022-05-13 07:57:06+0000	RAHUL SEN	Changes_requested
92	An Intuitive Comparison of Four Meta-heuristic MPPT Algorithms for a DC-DC Converter based Solar PV System under Partial Shading Effect (PSE)	Vinay kumar	Vk390677@gmail.com	Delhi Technological University	2022-05-11 08:07:10+0000	Aditya R. Gautam	Accepted
92	An Intuitive Comparison of Four Meta-heuristic MPPT Algorithms for a DC-DC Converter based Solar PV System under Partial Shading Effect (PSE)	Vinay kumar	Vk390677@gmail.com	Delhi Technological University	2022-05-24 05:23:48+0000	Dr. R. K. Kumawat	Accepted
93	Design of Biogas plant: An unique approach to an alternative source of energy in Vignan's institute of information & technology	M.leela priyanka	Viitpriyanka09@gmail.com	Vignan's institute of information & technology	2022-05-13 09:11:46+0000	RAHUL SEN	Changes_requested
93	Design of Biogas plant: An unique approach to an alternative source of energy in Vignan's institute of information & technology	M.leela priyanka	Viitpriyanka09@gmail.com	Vignan's institute of information & technology	2022-05-20 07:42:34+0000	Akashdeep Dey	Changes_requested
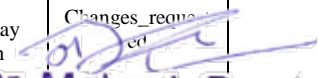
95	Approximate Climate Analysis for Assessing the Suitability of Indian Climate Zones for Hydroponic Fodder Applications	Souryadeep basak	Souryadeep.basak@terisas.ac.in	TERI University	2022-05-27 10:46:12+0000	Sachin Jain	Accepted
95	Approximate Climate Analysis for Assessing the Suitability of Indian Climate Zones for Hydroponic Fodder Applications	Souryadeep basak	Souryadeep.basak@terisas.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 tamphasana 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 tamphasana 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.dawar86@gmail.com	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	Priyankargowda1995@gmail.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	Priyankargowda1995@gmail.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.edu.in	Sreenidhi Institute of Science and Technology	2022-06-02 16:00:19+0000	K I SYED AHMED KABEER	Rejected
104	Application of circular economy in wastewater treatment using biochar based adsobent derived from sewage sludge	Pooja panchappa kenchannavar	Poojapanchappa@gmail.com	National Institute of Technology Karnataka	2022-05-24 07:18:41+0000	BINDHU BK	Accepted

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+0000	Dr. Paresh Gujarati	Accepted
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	2022-06-07 09:56:11+0000	Dr. Akshay Jain	Changes_reque ed

	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	2022-06-10 12:20:48+0000	Deepak singh	Accepted
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	K I SYED AHMED KABEER	Accepted

	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	Parulsardana3@gmail.com	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	Parulsardana3@gmail.com	Government National College,Sirsa	2022-05-28 07:52:56+0000	Sangeeta Choudhary	Accepted
138	Nanotechnology and building construction: Towards effective stakeholder engagement	Swetha priya darshini thammadi	Swetha.thammadi@fnu.ac.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.thammadi@fnu.ac.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	Guptaanil9812@gmail.com	Poornima College of Engineering	2022-05-30 07:03:33+0000	Prem Ranjan	Changes_requested
139	Factors affecting the Biogas Yield Production with Different Techniques: A Review	Anil gupta	Guptaanil9812@gmail.com	Poornima College of Engineering	2022-06-07 09:27:38+0000	Dr.Neha Bansal	Changes_requested
139	Factors affecting the Biogas Yield Production with Different Techniques: A Review	Anil gupta	Guptaanil9812@gmail.com	Poornima College of Engineering	2022-05-28 07:41:25+0000	Ashish Solanki	Changes_requested
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 Shrivastava	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 Choudhary	Accepted
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+0000	Dr. Paresh Gujarati	Accepted
142	Analysis of Blended Concrete	Janhavi singh	Janhavisingh_2k20ste09	Delhi Technological	2022-06-07 10:44:35+0000	Akshay	

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	Cubes under Impact loading using ANSYS		@dtu.ac.in	University		Jain	
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 m	MIT WPU Pune	2022-05-31 10:02:01+0000	Ashish Solanki	Rejected
155	Experimental Investigation of Drying Potato for Visakhapatnam climatic condition	Dr. Susant kumar sahu	Susantsahuk iit@gmail.co m	Vignan's Institute of Information Technology, Visakhapatnam	2022-05-27 06:55:51+0000	Md. Mustafa Kamal	Accepted

155	Experimental Investigation of Drying Potato for Visakhapatnam climatic condition	Dr. Susant kumar sahu	Susantsahukiit@gmail.com	Vignan's Institute of Information Technology, Visakhapatnam	2022-05-26 16:09:57+0000	Thiyam Tamphasana Devi	Accepted
157	GIS Mapping for Distribution of Ground Water Quality in Udaipur	Sangeeta choudhary	Sangeeta27apr@gmail.com	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@ewubd.edu	East West University	2022-05-28 03:30:06+0000	Dr. Seelam Srikanth	Rejected
159	Numerical Analysis of RCC Beam Using ABAQUS	Hemamathi	Hod.civil@rmkec.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	Hemamathi	Hod.civil@rmkec.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	Chanderpra95@gmail.com	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	Izharansari17@gmail.com	Jamia Millia Islamia	2022-06-02 14:22:41+0000	Thiyam Tamphasana 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.satankar@poornima.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 somwanshi	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.thammadi@fnu.ac.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.satankar@poornima.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.satankar@poornima.org	Poornima College of Engineering	2022-06-04 09:07:28+0000	Dr. P. Kavipriya	Accepted
172	A Literature Review on Renewable Energy Resource and Optimization	Devendra somwanshi	Imdev.som@gmail.com	Poornima College of Engineering	2022-06-02 09:07:23+0000	Basuraj Bhowmik	Accepted
173	Performance Evolution of Water Treatment Plant of Kekri,		Rsroopsingh81@gmail.com		2022-06-07 10:32:41+0000	Vipin Sh	Accepted

			Rajasthan, India				
175	An Investigation of Sick Building Syndrome (SBS) affecting health of occupants in Western Maharashtra, India.	Dr. Sudarshan D. Kore	Skore@nicmar.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	Guptaanil9812@gmail.com	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	Guptaanil9812@gmail.com	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 Madhanrao Kharwade	Accepted

LIST OF REGISTERED CANDIDATES

S N	Track	ID	Topic	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 development 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, maharashtra , 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	Mrs. Neha joshi	Mksss's dr. B. N. College of architecture , pune, india

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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 environmental 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,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 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), hyderabad, 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 choudhary	M.b.m. university jodhpur rajasthan, india

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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	Visvesvaraya 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 development, 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 management, zenith group of institutions, bhubaneswar, 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 technology and manageme...

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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_2, no_2& 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, 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 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 international 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 technology 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 information technology, visakhapatnam, 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	Rabindranath 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	Department of civil engineering, rabindranath 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 technology (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 anita nag	Mr. Dhiraj ramesh naxine	G h raisoni university, amravati, india
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

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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 environmental 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. Archanava chandra	Jis college of engineering , 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 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 tiruchirappalli, 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	Visvesvaraya 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	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 technology, jodhpur, india

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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 technological 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	Mr. Rohit kumar	Department of industrial and production engineering, dr. B r ambedkar national institute of technology, jalandhar, punjab, india-144027 nit 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	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 construction management (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 technological 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 technology 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

S N	Track	ID	Topic	Name	Presenter	Institute
86			The need for legislation on renewable energy for sustainable development in india	Aniket bhargava, and khyati kochhar	Khyati kochhar	Faculty of law, banasthali vidyapith village, banasthali, rajasthan, india

LIST OF ATTENDED CANDIDATES

S N	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 development 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, maharashtra, 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	Mrs. Neha joshi	Mksss's dr. B. N. College of architecture, 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	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 environmental 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, 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 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), hyderabad, 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 choudhary	M.b.m. university jodhpur rajasthan, 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 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, 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 management, zenith group of institutions, bhubaneswar, 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 technology and management, 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_2, no_2& 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, 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 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 international 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 technology 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 information technology, visakhapatnam, 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	Rabindranath 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	Department of civil engineering, rabindranath 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 technology (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 anita nag	Mr. Dhiraj ramesh naxine	G h raisoni university , amravati, india

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 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

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					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 gujar	Visvesvar aya national institute of technolog y
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	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 technology, 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 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 technological 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	Mr. Rohit kumar	Department of industrial and production engineering, dr. B r ambedkar national institute of technology, 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	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 construction management (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 technological 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 technology 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	Khyati kochhar	Faculty of law, banasthali vidyapith village, banasthali , rajasthan, india

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SAMPLE COPY CERTIFICATE

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? *

1	2	3	4	5
○	○	○	○	○

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

1	2	3	4	5
○	○	○	○	○

FEEDBACK ANALYSIS

SWOT ANALYSIS: Nil

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BUDGET & ACTUALS:

S. NO.	EXPENDITURE	RATE	QUANTITY	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			
		TOTAL EXPENDITUTRE		**578538**

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

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 share their experiences and research results on all aspects of Engineering Applications of Artificial Intelligence. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Engineering Applications of Artificial Intelligence. This conference covers research works carried out by various students

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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:

3rd International Conference on Artificial Intelligence: Advances and Applications-2022 (ICAIAA-2022)

April 23-24, 2022

In Association with Springer

Organized by POORNIMA COLLEGE OF ENGINEERING &

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, Jaipur, and Soft Computing Research Society. 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. Artificial Intelligence research is leading to evolve in the area of Machine Learning, 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. 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.

ICAIAA-2022 COMMITTEES

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

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Manisha Kumawat, PCE, Jaipur, India
Shuchi Dave, PCE, Jaipur, India

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
- Collective Intelligence
- Differential Evolution
- Evolutionary Scheduling
- Machine Learning
- Ant Colony Optimization
- Artificial Intelligence In Modeling And Simulation
- Artificial Immune Systems
- Computer Vision And Speech Understanding
- Evolutionary Design
- Expert Systems
- Deep Learning
- Approximate Reasoning
- Natural Language Processing
- Brain-Machine Interfaces
- Data Mining
- Neural Network Theory and Architectures
- Human–Computer Interaction
- Nature Inspired Algorithm

Track-2 Intelligent Sensor, Devices & Applications

- Automatic Control
- 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
- CAD Design & Testing
- Computational Theories Of Learning
- Intelligent Sensor
- Information Retrieval
- Mechatronics
- 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
- Environmental/ Earth Sensing
- Pervasive Computing And Ambient Intelligence
- Synthesizing Controllers
- Industrial Monitoring
- Security and Privacy Data Mining
- Business intelligence

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 3-5 minutes query time. Presentation schedule will be displayed well before time.

Important Dates
Last Date of Paper Submission	:	February 25, 2022
Acceptance Notification	:	March 31, 2022
Camera Ready Paper	:	April 10, 2021
Last Date of Registration	:	April 15, 2022

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Registration Fees

Author Category	Early Bird Registration	
	India	Outside India
Regular Author	5000 INR/-	120 USD
Regular Author (Existing SCRS Members)	4000 INR/-	Not Applicable
Listener (Non-Author/Co- Author/ General Participants)	1500 INR	50 USD
Listener (Existing SCRS Members) (Non-Author/Co- Author/ General Participants)	1000 INR	40 USD
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 of their research paper is not above 15 %. Manuscripts having similarity score more 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. Howerer 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

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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 wereregistered. 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

Opening Ceremony and Keynote Talk			13:00 – 14:45
OC	Opening Ceremony		13:00 – 14:00
K1	Data Generation using Modelling and Simulation For Machine Learning **Speaker:** Prashant Singh Rana, Thapar Institute of Engg & Tech, Patiala, Punjab, India		14:00 – 14:45
	TS01: Artificial Intelligence		16:00 – 17:30
0238	Sri Raaghav N U, Aathikrishna S K, Anbumani T and Subbulakshmi B *Online Proctoring System*		
0677	Kaviyameena D, Kavitha D, Uma Maheswari B and Sujatha R. *Application of Machine Learning Models to Improve the Accuracy of Earnings Management Prediction*		
2538	Deepika Vodnala, Shravya Jadhav, Konagari Vishnupriya and Vemuri Rohit *Machine Learning-Based Tool to Classify Online Toxic Comments*		
0486	Tarunim Sharma, Dr. Shalini Bhaskar, Dr. Aman Jatain and Dr. Kavita Pabreja *Literature Review: A Comparative Study of Software Defect Prediction Techniques*		
7081	Prachi Rajarapollu, Aditya Borse, Megharaj Sonawane, Hrishikesh Sonawane and Ashish Mali *System Development to Analyze Recruitment Process and Eligibility 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 Lexicon Technology*		
	TS02: Intelligent Sensor, Devices & Application		16:00 – 17:30

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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_		

3155	Cynthia Sherin B and Kayalvizhi Jayavel _Effective Vehicle Classification and Re-Identification on Stanford Cars Dataset using Convolutional Neural Networks_		
2976	Kedar Kharde, Siddhesh Bhere, Siddhesh Gadge, Rohit Jadhav and Indu Dokare _Recognition of Indian Sign Language Characters using Convolutional Neural Network_		
	TS 04: Big Data Analytics	16:00 – 17:30	
5453	Sushma Iliger and Mario Pinto _Comparative Study of Rainfall Prediction Modeling Techniques : Case Study on Karapur, India_		
5337	Sangeetha S, Sangeetha B, Raja Kumar I, Shevannth R, Krishna Prasath S and Mohammed Rafi M _Fake Review Detection Using Deep Learning_		
2129	Nowshith Parveen N, Kavitha D, Uma Maheswari B and Sujatha R _Assessment of firm's performance by employing text mining techniques_		
0668	Parimal Kumar, Ayesha Farooq 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_		
3430	Bhavana Bhagat and Dr. Shital Dande _A Literature Review on Sentiment Analysis using Machine Learning in 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-Rodríguez and Antonio J. Tallón-Ballesteros _Feature ranking for feature sorting and feature selection: FR4(FS)^2_		
	TS 05: Emerging Technology	16:00 – 17:30	
2934	Shahana Chandrasekaran, Vignesh S and Susaritha M _FOREST FIRE ALERT SYSTEM_		
6030	Antara Sengupta, Sreeya Ghosh and Pabitra Pal Choudhury _Analysis of Changes Occurring in Codon Positions due to Mutations Through the Cellular Automata Transition Rules_		
5244	Anjali Bobra and Dr. Bhavesh Patel _Energy Optimization In Data Centers For Cloud Computing_		

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.AI: 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, Devices & 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*	

5815	Emanuele Lindo Secco *A Surveillance Mobile Robot based on Low-Cost Embedded Computers*	
6671	Mu'Azu Aminu Aliyu, Souley Boukari, Abdullahi Gamsha Madaki 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 Ghosh	

	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 *Development of Thermocycler for On-site Detection of Meat Authenticity and Microbial contamination*	
7215	Maheen Ashraf, Syeda Fatima, Misbah Fatma, Sidratul Muntaha, Umme Rooman, Shahab Saquib Sohail and Ahmad Sarosh *Private browsing does not affect Google personalization: An experimental evaluation*	
8153	Jey Shree Lakshmi J, Subalakshmi J, Joyslin Janet J, Vigneshwaran B and Sivapalanirajan M *Deep learning-based condition monitoring of insulator in overhead power distribution lines using Enhanced Cat Swarm Optimization*	
9856	Abubakar Saddiq Mohammed, Isiaka Olukayode Mosudi and Suleiman Zubair *Performance Evaluation of Secured Containerization for Edge Computing in 5G Communication Network*	
6523	Loong Chuen Lee, Nur Fatin Syuhada Binti Roslee and Hukil Sino *Evaluating Morphometric Feature Variability of Handwritten Numerals among Malaysian Malays using Self-Organizing Maps*	
6216	Chiulan Yeh and Fu-Yuan Li *A Study of Computer Drawing Used in Menswear Design*	
Keynote Talk, Award Announcements and Valedictory Function		13:00 – 14:15
K2	Developing AI Models for Solving Real-World Problems **Speaker: Mohammad Shorif Uddin**, Jahangirnagar University, Bangladesh	13:00 – 13:45
Cc	Award Announcements and Valedictory Function	13:45 – 14:15

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 **Dr. Ashish Kumar Tripathi,** 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 **Dr. Mahesh Bundele,** 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 **Dr. Jagdish Chandra Bansal,** 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 **Dr. Garima Mathur,** 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

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KEYNOTE SPEAKERS:

- Prashant Singh Rana,Thapar Institute ofEngg& Tech, Patiala, Punjab, India

- Mohammad Shorif Uddin,Jahangirnagar University, Bangladesh

GLIMPSES OF PRESENTATIONS:
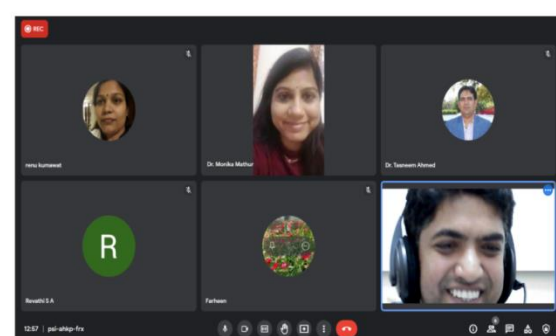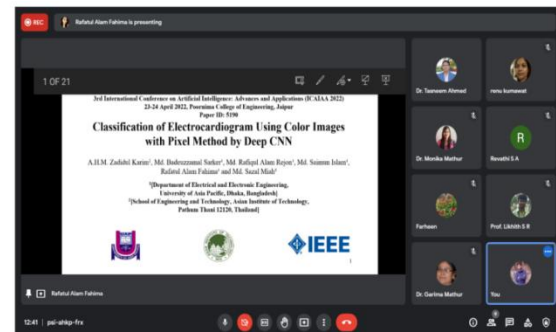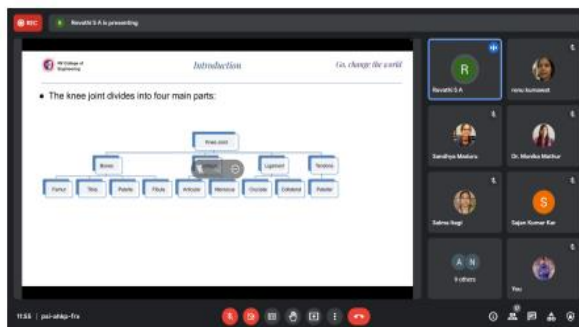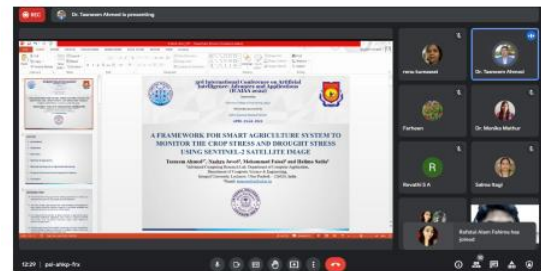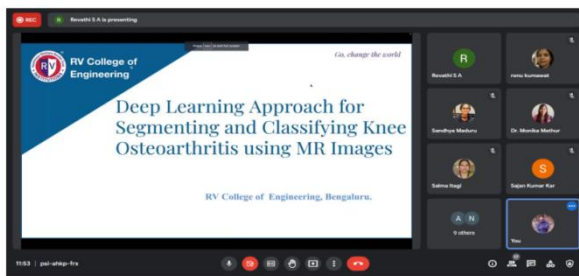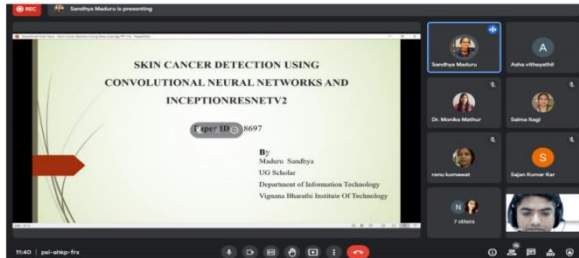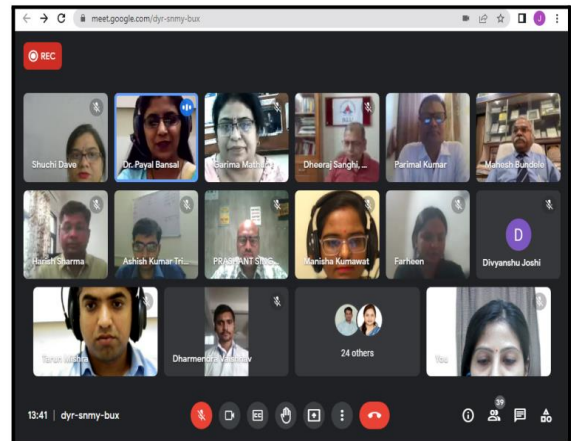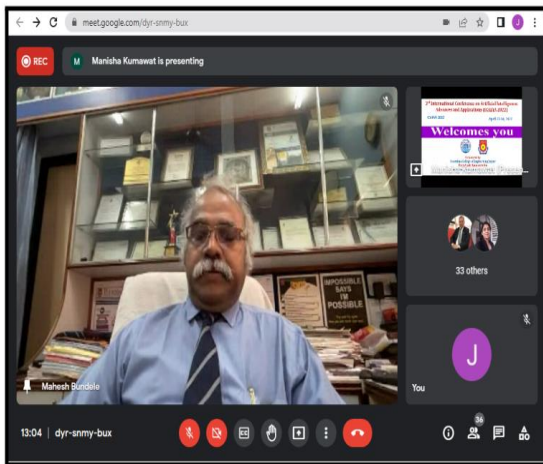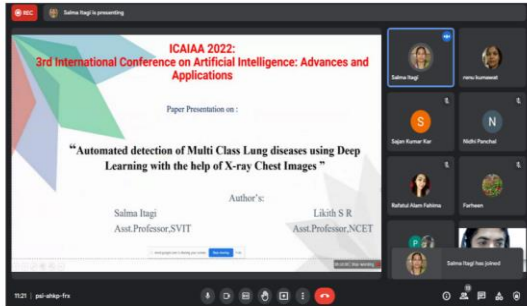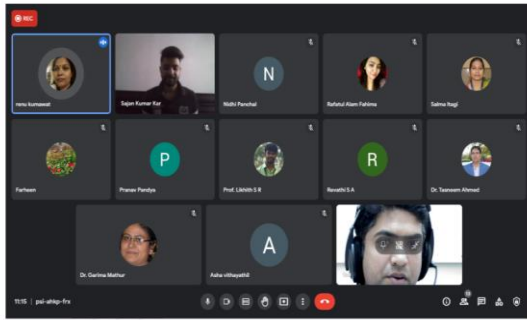
VALEDICTORY SESSION:

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	Duration	Time
1.	Reporting of Participants	15 Min	01:30 pm – 01:45 pm
2.	Arrival of Dignitaries A. **Prof. Mohammad Shorif Uddin,** Jahangirnagar University, Bangladesh – **Chief Guest** B. **Dr. Jagdish Chandra Bansal,** General Secretary, Soft Computing Research Society C. **Dr. Mahesh Bundele,** Director, PCE, General Chair ICAIAA 2022 D. **Dr. Ashish Kumar Tripathi,** MNIT, Jaipur, General Chair ICAIAA 2022 E. **Dr. Harish Sharma,** Organizing Chair ICAIAA 2022 F. **Dr. Narayan Lal Jain,** Vice Principal, PCE, Jaipur G. **Dr. Garima Mathur,** General Chair ICAIAA 2022	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 **Dr. Garima Mathur,** 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 **Chief Guest**	02 Min	01:55 pm – 01:57 pm
7.	Address by **Dr. Mahesh Bundele,** Director, PCE, General Chair ICAIAA 2022	05 Min	01:57 pm – 02:02 pm
8.	Address by **Chief Guest Mohammad Shorif Uddin,** Jahangirnagar University, Bangladesh	10 Min	02:02 pm – 02:12 pm
9.	Vote of Thanks by **Dr. Shuchi Dave,** 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
Strongly Agree	35	24	30	29
Agree	10	12	15	11
Neutral	5	4	3	2
Disagree	1	1	5	5
Strongly Disagree	0	0	0	0
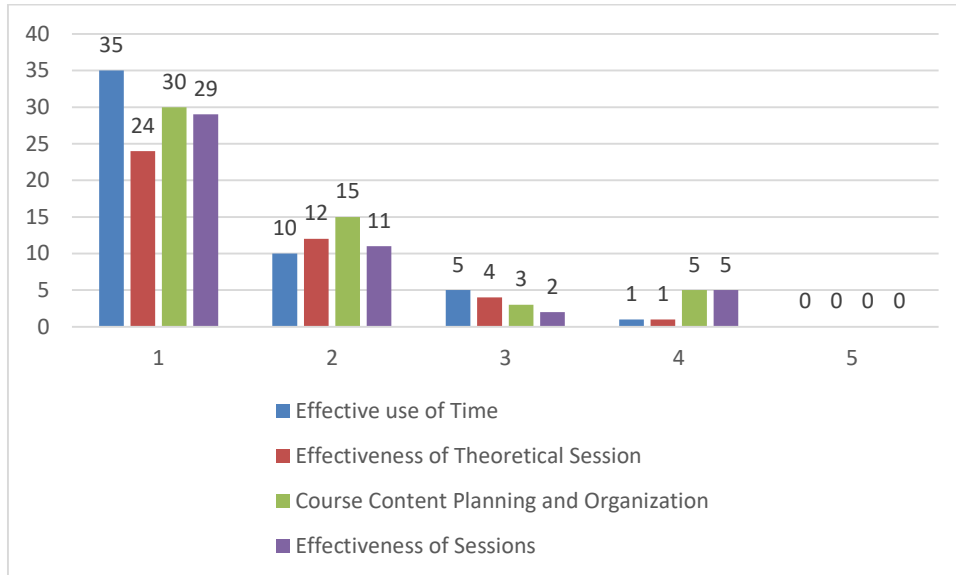
SWOT ANALYSIS:
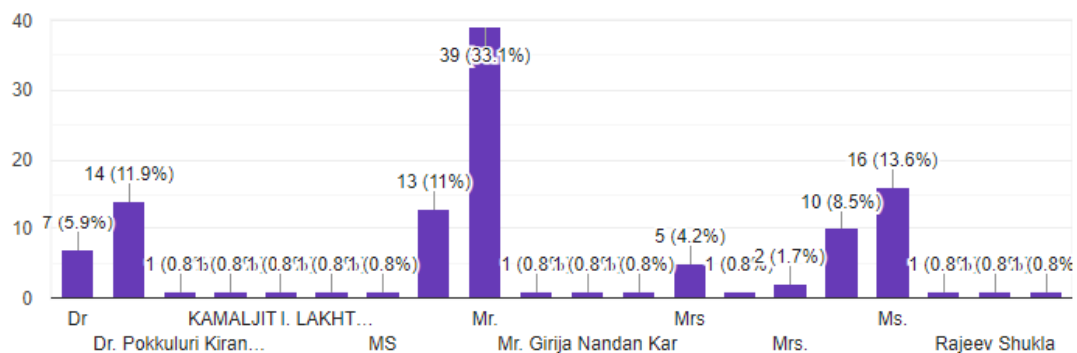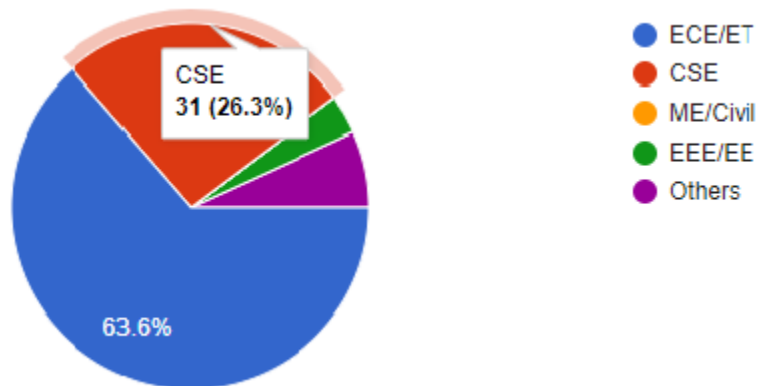
- ECE/ET
- CSE
- ME/Civil
- EEE/EE
- Others

CSE
31 (26.3%)

63.6%

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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 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 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.

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

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

RECENT ADVANCES AND INNOVATIONS IN ENGINEERING

(ICRAIE - 2021)
I E E E C O N F E R E N C E R E C O R D # 5 2 9 0 0

Technically Sponsored by:

IEEE COMPUTER SOCIETY
Poland Section Chapter

IEEE Computational Intelligence Society

Co-Organizer:

Cawangan Perlis
Kampus Arau
UNIVERSITI TEKNOLOGI MARA
Faculty of Computer and Mathematical Sciences, UiTM Perlis Branch

Cawangan Pulau Pinang
Kampus Permatang Pauh
UNIVERSITI TEKNOLOGI MARA
School of Electrical Engineering, UiTM Pulau Pinang Branch

Organized by:

Cawangan Kedah
Kampus Sungai Petani
UNIVERSITI TEKNOLOGI MARA
Faculty of Computer and Mathematical Sciences, UiTM Kedah Branch

IEEE
IEEE IE/IA Malaysia Joint Chapter

Poornima College of Engineering

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RESPONSE(SUBMISSION/ACCEPTANCE/ PRESENTATION):

A totalof 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.

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.

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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/hjm-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-rgx
13	3C	https://meet.google.com/zgg-ixgw-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-ttgc-gyw
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-cigg-yux
20	5C	https://meet.google.com/pks-sfua-njc
21	5D	https://meet.google.com/dya-jsvh-bpe
22	5E	https://meet.google.com/xgm-ciix-vpw
23	6A	https://meet.google.com/izb-kaoo-ecd
24	6B	https://meet.google.com/ysm-feih-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-mhg

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 Engineering Affinity Group which was formed in July 2007.

Plenary talk 2 is conveyed by Dr. Azlan Mohd Zain, a Professor at the School of Computing, Faculty of Engineering, and University Teknologi Malaysia (UTM). Prof Dr. Azlan obtained a Master of Science (Productivity and Quality Improvement) from Unive

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:

6th INTERNATIONAL CONFERENCE AND WORKSHOPS ON RECENT ADVANCES AND INNOVATIONS IN ENGINEERING
SYNERGISING EFFORTS, EXPANDING HORIZONS
(IEEE Conference Record #52900)
1 - 3 December 2021
ICRAIE 2021

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

Scopus · IEEE COMPUTER SOCIETY · IEEE

Poornima College of Engineering Jaipur Rajasthan, India

Conference Schedule	
Wednesday, Day 1: 1st December 2021	
08:00 am – 10:15 am	Welcome Reception and Registration Opens
10:15 am – 11:15 am	**Plenary Talk 1** Title : Big Data and AI for Smarter Electrical Power Systems Speaker : Prof. Dr. Zuhaina Zakaria IEEE Power and Energy Society, Malaysia
11:15 am – 11:30 am	**Refreshment**
11:30 am – 12:30 pm	**Plenary Talk 2** Title : Big Data Visualisation - Challenge and Tools Speaker : Prof. Dr. Azlan Mohd Zain Director, UTM Big Data Centre, Universiti Teknologi Malaysia, Malaysia
12:30 pm – 02:00 pm	**Lunch Break**
02:00 pm – 03:00 pm	**Parallel Session 1** **Track I (CS/IT)**
03:00 pm – 04:00 pm	**Plenary Talk 3** Title : Semantic Interoperability for IoT Speaker : Dr. Wieslaw Pawlowski Department of Mathematics, Physics and Informatics, University of Gdansk, Poland
04:00 pm – 05:00 pm	**Parallel Session 2** **Track I (CS/IT)**
05:00 pm	**End of 1st Day**

Parallel Session 1 rooms: Room 1A | Room 1B | Room 1C | Room 1D | Room 1E

Parallel Session 2 rooms: Room 2A | Room 2B | Room 2C | Room 2D | Room 2E

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Sitapura, JAIPUR

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

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Poornima College of Engineering Jaipur Rajasthan, India

Conference Schedule					
Thursday, Day 2: 2nd December 2021					
09:00 am – 10:00 am	**Parallel Session 3**				
	Track I (CS/IT) & Track II (ECE)				
	Room 3A	Room 3B	Room 3C	Room 3D	Room 3E
10:00 am – 10:45 am	**Plenary Talk 4**				
	Title : Artificial Intelligence and Data Science for Innovation Product Development Speaker : Dr. Afnizanfaizal Abdullah Synapse Innovation Sdn. Bhd.				
10:45 am – 11:00 am	**Refreshment**				
11:00 am – 11:30 am	**Opening Ceremony**				
	Welcoming Speech **Dr. Shamsul Jamel Elias** **Chair of ICRAIE 2021, UiTM Kedah Branch, Kedah, Malaysia** *Appreciation Speech* **Dr Vishwanath Sinha** **Chairperson, FIEEE** **Dr. Mahesh Bundele** **Principal & Director, Poornima College of Engineering, Jaipur, India** **Ar Rahul Singhi** **Director, Poornima College of Engineering, Jaipur, India** *Officiating Speech* **Prof. Dr. Mohamad Abdullah Hemdi** **Rector UiTM Kedah Branch, Kedah, Malaysia** *Montage*				
11:30 am – 12:30 pm	**Keynote Address Session I**				
	Title : Digital Transformation: The Emergence of Digital Intelligence Speaker : Prof. Ts. Dr. Haryani Haron Dean, Faculty of Computer and Mathematical Sciences, UiTM Shah Alam, Malaysia				
12:30 pm – 2:00 pm	**Lunch Break**				

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

SYNERGISING EFFORTS, EXPANDING HORIZONS
(IEEE Conference Record #52900)
1 - 3 December 2021

ICRAIE 2021

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

Poornima College of Engineering Jaipur Rajasthan, India

02:00 pm – 03:00 pm	Parallel Session 4				
	Track II (ECE) & Track III (EE)				
	Room 4A	Room 4B	Room 4C	Room 4D	Room 4E
03:30 pm – 04:00 pm	Keynote Address Session II				
	Title : Introduction to Reinforcement Learning Speaker : Assoc. Prof. Dr. Maria Ganzha Warsaw University of Technology, Poland				
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 2ⁿᵈ Day				

Conference Schedule

Friday, Day 3: 3ʳᵈ December, 2021					
09:00 am – 10:00 am	Parallel Session 6				
	Track 1 (CS/IT)				
	Room 6A	Room 6B	Room 6C	Room 6D	Room 6E
10:00 am – 10:15 am	Refreshment				
10:15 am – 11:15 am	Keynote Address Session III				
	Title : Data Science Trends Speaker : Mohammad Shazri Bin Shahrir Principal Data Scientist, Vettons Sdn. Bhd.				
11:15 am - 11:30 am	Award Announcement & Closing Ceremony				
	Guest of Honour Prof. Dr. Nooritawati Md Tahir IEEE Industrial Electronic / Industry Applications Malaysia Joint Chapter				
11:30 am	End of Event				

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KEYNOTE SPEAKERS:

ICRAIE 2021
PLENARY & KEYNOTE SPEAKER

iCRAiE
2021

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

KEYNOTE SESSION 1
Professor Ts. Dr. Haryani Haron
Dean, Faculty of Computer Sciences & Mathematics
UiTM Shah Alam
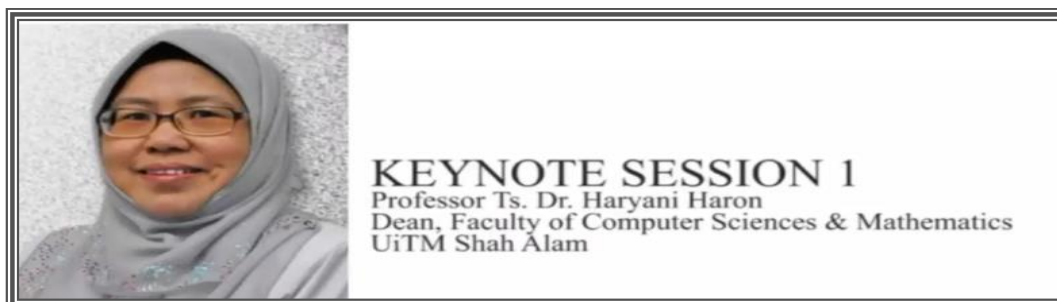
- **Assoc. Prof. Dr. Maria Ganzha:** Warsaw University of Technology (Warsaw, Poland)(Topic: Introduction to Reinforcement Learning)

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  - **Mohammad Shazri Bin Shahrir:** Principal Data Scientist, Vettons (Topic : Data Science Trends)
  - **Dr. Marcin Papryzski**: Warsaw Management University(Topic: Data Science Trends)

KEYNOTE SESSION II
Assoc. Prof. Dr. Maria Ganzha
Warsaw University of Technology
Warsaw, Poland

KEYNOTE SESSION III
Mohammad Shazri B. Shahrir
Principal Data Scientist,
Vettons Sdn Bhd

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)
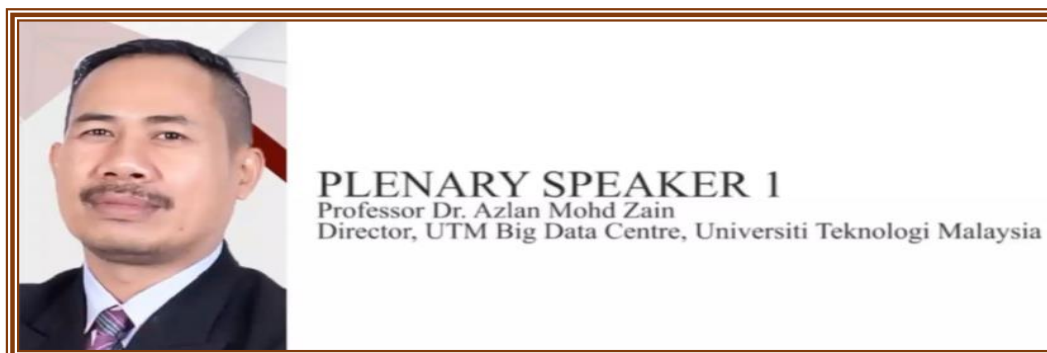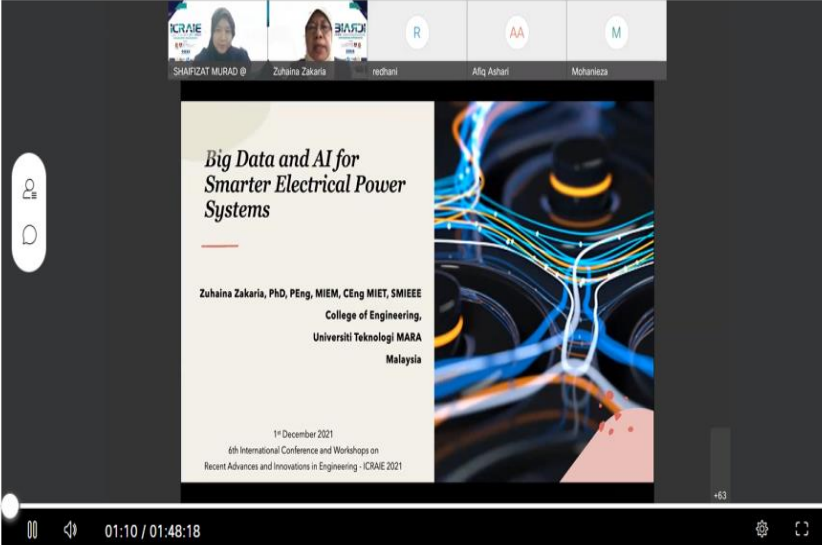
PLENARY SPEAKER 1
Professor Dr. Azlan Mohd Zain
Director, UTM Big Data Centre, Universiti Teknologi Malaysia

- **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)
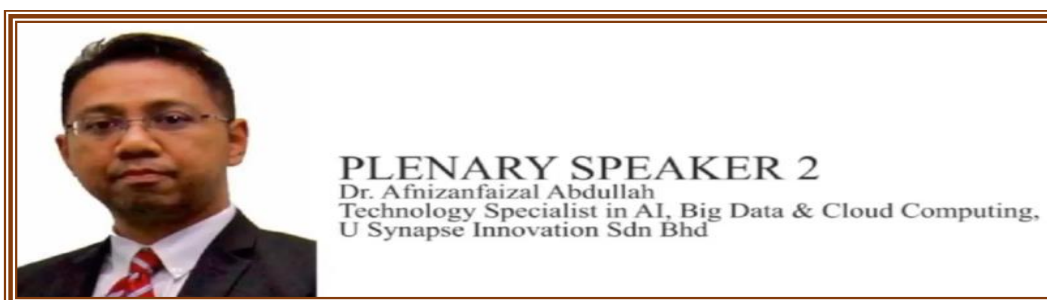
PLENARY SPEAKER 2
Dr. Afnizanfaizal Abdullah
Technology Specialist in AI, Big Data & Cloud Computing,
U Synapse Innovation Sdn Bhd

GLIMPSESOFPRESENTATIONS

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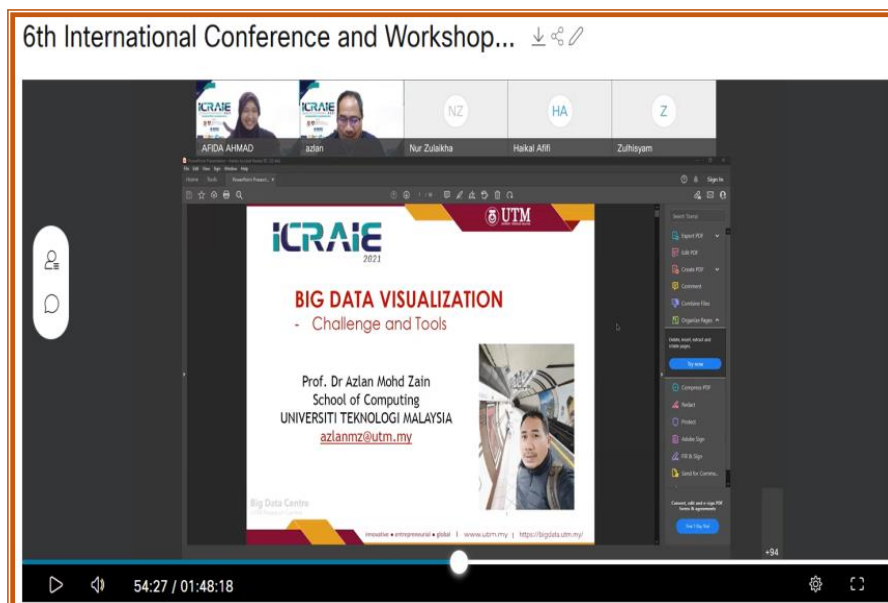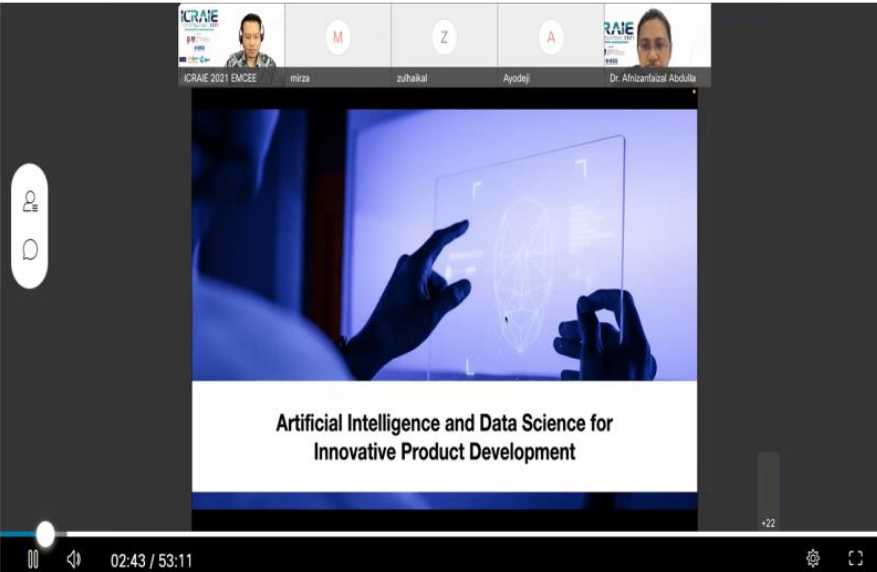
6th International Conference and Workshop...
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6th International Conference and Workshop...
02:43 / 53:11

6th International Conference and Workshop...
02:13 / 01:01:52

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Group Photograph

VALEDICTORYSESSION:

6th IEEE International Conference
On
Recent Advances and Innovations in Engineering – 2021
(ICRAIE-2021)
IEEE Conference Record # 52900
December 1 - 3, 2021
Technically & Financially
Sponsored by:
IEEE Delhi Section, India
Organized by:
Poornima College of Engineering, and IEEE Delhi Section, Delhi
Valedictory Session
Friday, December 3, 2021
Venue: Online ICRAIE Conference Hall (Zoom)
Time: 11.15 am to 11.30 am

S. No	Activity	Duration	Time
1.	Reporting and Registration of Delegates –On Zoom link	55 Min	10:15 am-11:10 am
2.	Arrival of dignitaries A. Prof.Dr. Nooratiwati Mohd. Tahir, Industry Applications IEEE Malaysia Joint Chapter- Guest of Honour B. Ar. Rahul Singhi, Director Poornima Group C. Dr. Mahesh Bundele, General Co-Chair, ICRAIE D. Mr. Pankaj Dhemla, Vice Principal, PCE E. Dr. Surendra Yadav, Track Chair –ICRAIE 2021 F. Dr. Garima Mathur Track Chair-ICRAIE 2021 G. Dr. Virendra Sangtani Track Chair-ICRAIE 2021	05 Min	11:10 am-11:15 pm
3.	Felicitation of Guest of Honour Nooratiwati Mohd. Tahir, Industry Applications IEEE Malaysia Joint Chapter- Guest of Honour Ar. Rahul Singhi, Director, Poornima Group	02 Min	11:15 am-11:17 am
4.	Welcome Address, by Ar. Rahul Singhi, Director Poornima Group	02 Min	11:17 am-11:19 am
5.	Report by Track Chair CSE- Dr. Surendra Yadav	02 Min	11:19 am-11:21 am
6.	Report by Track Chair ECE- Dr. Garima Mathur	02 Min	11:21 am-11:23 am
7.	Report by Track Chair EE- Dr. Virendra Sangtani	02Min	11:23 am-11:25 am
8.	Participant's Feedback -Online	02Min	11:25 am-11:27 am
9.	e-Certificate distribution at the hands of Guest of honour	02 Min	11:27 am-11:29 am
10.	Vote of Thanks by Dr.Garima Mathur Track Chair EC	01 Min	11:29 am-11:30 am
11.	**Group Photograph -Virtual**		

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 meticulously planning all sessions to achieve the objectives of this conference. I also express my concern and support for all the members of the IEEE community including teachers and their families who are affected by the pandemic

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ICRAIE 2021
International Conference and Workshop on Recent Advances and Innovation in Engineering

Universiti Teknologi MARA | Cawangan Kedah Kampus Sungai Petani

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

Universiti Teknologi MARA | Cawangan Perlis Kampus Arau
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Faculty of Electrical Engineering, UiTM Pulau Pinang Branch, Pulau Pinang

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IEEE Computational Intelligence Society

IEEE IE/IA Malaysia Joint Chapter

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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,MohammadBaijed *INTIInternationalUniversity,Malaysia*	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)	*HaikalAfifiAhmadShaberi*

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		PenangBranch,Malaysia		
4	1570740190	Muhammad Naqiuddin Mansor, ***AhmadAsriAbdSamat***,AimiIdz wanTajudin, Saiful Firdaus Abd Shukor, KamarualazharDaud *Universiti Teknologi MARA, PenangBranch,Malaysia*	Self Tuning of PI Controller for Speed Control of DC MotorbyUsingFuzzy Logic	***AhmadAsriAbdSamat***
5	1570740554	***BrynaYiiNgieng***,NabihahAhmad *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 *UniversitiTenagaNasional,Malaysia*	UnderstandingDepressionDetectionUsingSocialMedia	***AlizaAbdulLatif***
7	1570742112	***Saodah Omar***, Muhammad Hafizal NaimAbd Razak, Ahmad Asri Abd Samat,SamihahAbdullah,Kamar ulazharDaud *Universiti Teknologi MARA, PenangBranch,Malaysia*	Analysing the Impact of Distribution Generation forDistributionSystem	***SaodahOmar***

8	1570745086	*Matthew Khoo*, Nabihah Ahmad, YuzmanYusoff,Hasmayadi Abdul-Majid *Universiti Tun Hussein Onn Malaysia,Malaysia*	Design of a 14-Bit Hybrid DAC for High ResolutionApplicationsin SAR ADCs	*MatthewKhoo*
9	1570745382	*Alya Geogiana Buja*, Maheran Katan,Nasreen Miza Nasrijal, Sharifah FaigahSyedAlwi,TanGek Siang Universiti Teknologi MARA, MelakaBranch,Malaysia	Into the Look: Security Issues, Crypto-Hygiene, and FutureDirection of Blockchain and Cryptocurrency for Beginners inMalaysia	*AlyaGeogianaBuja*
10	1570745805	Mohammad Amirul Adika, *Aimi IdzwanTajudin*, Ahmad Asri Abd Samat, SaifulFirdausAbdShukor,Kamar ulazharDaud	Design an Optimal PI Controller Using Artificial Bee ColonyAlgorithmforBuckConverter	*AimiIdzwanTajudin*
		Universiti Teknologi MARA, PenangBranch,Malaysia		
11	1570747851	*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	*IntanRahayuIbrahim*
12	1570748504	*Nur Ameerah Abdul Halim*, Ajune WanisIsmail *UniversitiTeknologiMalaysia,Malay sia*	Raycasting Method Using Hand Gesture for Target SelectionontheOccludedObject inHandheldAugmentedReality	*NurAmeerahAbdulHalim*

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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 *Universiti Teknikal Malaysia Melaka,Malaysia*	Design and Implementation of Graphical User Interface forInterfaceBoardComponent Testing	*NorlezahHashim*
15	1570757331	*Megat Muazzam*, Zuraini Zainol, MohdHazaliMohamedHalip *UniversitiTeknologiMARA,Malaysia*	Mitigating Malware Threats at Small Medium Enterprise(SME)Organisation: AReview andFramework	*MegatMuazzam*
16	1570757611	*Syahrul Nizam Samsudin*, Bulan Abdullah,NoriahYusoff *UniversitiTeknologiMARA,Malaysia*	Big Data Model of Customer Satisfaction and ServiceExperience(CSSE)forAutomotiveAftersalesServices	*SyahrulNizamSamsudin*
17	1570758163	*Hashiroh Hussain*, NorshuhadaShiratuddin *Institute Teacher Education (IPG)DarulamanCampus,Malaysia*	Enhancing Compellingness of Digital StorytellingApplicationsWith Digital Tools	*HashirohHussain*

18	1570758855	**Saffa Raihan Zainal Abidin**, Siti FadzilahMat Noor, Noraidah Sahari@Ashaari,NurulHusnaMahadzir,AbdulHalim 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 SecurityEnhancementAgainstML-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-19EffectonUndergraduateComputingStudents'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**

23	1570763108	Mohamad Shah Sabri, Kamarulazhar Daud,*Wan Salha Saidon*, 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	*SitiSolehahMdRamli*

28	1570764300	Zainab Othman, Nur Nabilah Abu Mansor,NurFarhaniAzmi,NurulHidayahMat Zain,	SnakeSpeciesIdentificationUsingDigitalImage Processing	*KhairulAdilahAhmad*
		Khyrina Airin Fariza Abu Samah,IsmassabahIsmai,***KhairulAdilahAhmad*** *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*, **Noor Aini Mohd Roslan**, *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 **Mohd Hussaini Abbas**, AdiIzhar Che Ani, Mohamed Mydin M. AbdulKader *Universiti Teknologi MARA, PenangBranch,Malaysia*	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:HumanGaitCycleModelUsingImage-TemporalFeature	**IqbalHaziqJamal**

39	1570767252	Siti Nur Afifa Hamidi, **Abdul Malek SaidinaOmar**, Mohamad Adha Mohamad Idin,Ahmad Asri Abd Samat, Siti Solehah MdRamli,MuhammadKhusairiOsman *Universiti Teknologi MARA, PenangBranch,Malaysia*	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	**MinakshiBoruah**,RanjitaDas *National Institute Of Technology,Mizoram,India*	Identification of DNA Motif Using Likelihood and AttentionBasedPoolingMethodin theGRU Framework	**MinakshiBoruah**
42	1570767799	MirzaMuntasirNishat,**Md. AshifMahbub**, 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, PenangBranch,Malaysia*	Systematic Literature Review: Recognition of Human GaitCycleUsingMachineLearningApproach	**Fatin Fatihatul AshyikinKamaruzaman**
44	1570768514	**Suwarna Shete**, Pranjal Jog, R. K.Kumawat,D.K.Palwalia *CareerPointUniversity,Kota,India.*	Battery Management System for SOC Estimation of Lithium-IonBatteryin Electric Vehicle:AReview	**SuwarnaShete**

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45	1570768521	**Pranjal Jog**, Suwarna Shete, R. K.Kumawat,D.K.Palwalia *Career Point University, Kota Rajasthan ,India*	ElectricVehicleChargingStationInfrastructure: AReview	***PranjalJog***
46	1570768873	Heryanto, **Rezi Delfianti**, Ardyono Priyadi,AdiSoeprijanto *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,AhamedSuhailandBhanuSene virathne *Sri Lanka Institute of InformationTechnology(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***

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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,KuldeepJayaswal,GauravJain *RajasthanTechnicalUniversityKota,India*	Optimal Allocation of Distributed Generator Placement: AnOptimalApproachtoEnhance theReliabilityofMicro-Grid	*PravinM.Sonawane*
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58	1570772126	**_Pankaj Verma_**, Nitish Katal, Gaurav Jain,KuldeepJayaswal _RajasthanTechnicalUniversity,India_	Global Maximum Power Point Tracking Methods for Multi-Peak Power Versus Voltage Curve of Photovoltaics: AReview	**_PankajVerma_**
59	1570772333	NbhanD Salih,**_MarwanDSaleh_** _MultimediaUniversity,Malaysia_	RobustBloodVesselSegmentationAlgorithmforFundusImages	**_MarwanDSaleh_**
60	1570772459		A Double-Ended Scheme for Fault Detection and Phase-Type Classification in Fixed Series CompensatedTransmissionLineDuringDistorted Signals	**_GauravKapoor_**
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61	1570772798	**_Mohebbanaaz_**, Y.Padma Sai, L.V.RajaniKumari _VNR Vignana Jyothi Institute ofEngineeringandTechnology,India_	Automated Detection of Cardiac Arrhythmia UsingRecurrentNeuralNetworks	**_Mohebbanaaz_**
62	1570772826	**_Durga R_**,PoovammalE _SRM Institute of Science and Technology,India_	FederatedLearningModelforHealthchainSystem	**_Durga R_**

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,AlharethZyoud,SitiHajarYusoff *International Islamic University Malaysia,Malaysia*	Maximum Power Point Tracking Controller Technique UsingPermitMagnetSynchronous Generator	**AhmedSamirBadawi**
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67	1570774052	**SaimanQuazi**,SarhanMusa *PrairieViewA&MUniversity,USA*	Image Classification and Semantic Segmentation With DeepLearning	**SaimanQuazi**
68	1570774062	**KehindeGilbert**,SarhanM.Musa *PrairieViewA&MUniversity,USA*	PerformanceMeasurementofOpenShortestPathFirstProtocolWith FailureRecovery in IP	**KehindeGilbert**
69	1570774434	TR . Kalai Lakshmi, Kaja Bantha Navas R,Sharmila Parveen. S, **Yogesh.M, DeepanEdwardDasan.M**,HariHaraSudan.P *Sathyabama Institute of Science andTechnology,India*	An Empirical Study on Industry 4.0 Future Practices in IndianMSMEs	**Yogesh. M, Deepan EdwardDasan.M**

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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	*SharifahNadiyahRazali*
		KolejKomunitiSelandar,Malaysia		
75	1570774786	Windhya Rankothge, Narmada Gamage,*Ahamed Suhail*, Tharani Ariyawansa,HarithaDewwiman,BhanuSenevirathne *Sri Lanka Institute of InformationTechnology(SLIIT),SriLanka*	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**
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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 ofDepression	**NorAinaAliza Ya'kob**
80	1570775493	**Aznor Hanah**, Rohani S Mohamed Farook,MohamadRizalAbdulRejab,MohdF airuz	Cross-LayerOptimizationforVANETCityScenarioU singTaguchiMechanism	**AznorHanah**
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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,NurHanaSamsudin *UniversitiSainsMalaysia,Malaysia*	Exploring the Business Intelligence Efficiency inOrganizationsAmongEmployeesinPenang, Malaysia	*TanShiAn*
83	1570775814	Windhya Rankothge, Narmada Gamage,*Tharani Ariyawansa*, Ahamed Suhail,HarithaDewwiman,BhanuSenevirathne *Sri Lanka Institute of InformationTechnology(SLIIT),Sr iLanka*	NetEye: Network Monitoring for a Software DefinedNetworkBasedVirtualizedNetworkFunctionsPlatform	*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	*MohdAliMatNong*

86	1570778277	*PoonamRajendra Gohad*,SajidullahKhan *SandipUniversity,India*	Diagnosis of Leaf Health Using Grape Leaf Thermal ImagingandConvolutional NeuralNetworks	*PoonamRajendraGohad*
87	1570778293	Setyawan P. Sakti, *Heru Nurwarsito*, DidikSuprayogo, Cahyo Prayogo, Awang SatyaKusuma *UniversityofBrawijaya,Indonesia*	Automation of CNC Machinery in Improving Quality andProduction Speed of Agricultural Product ProcessingMachineryComponents	*HeruNurwarsito*
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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*

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	*AhmadAfifAhmarofi*
		Universiti Teknologi MARA, Kedah Branch,Malaysia		

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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	Comments	No. Of Comments
Program	How was the seminar?	Excellent	100
		V. Good	85
		Good	15
		Poor	0
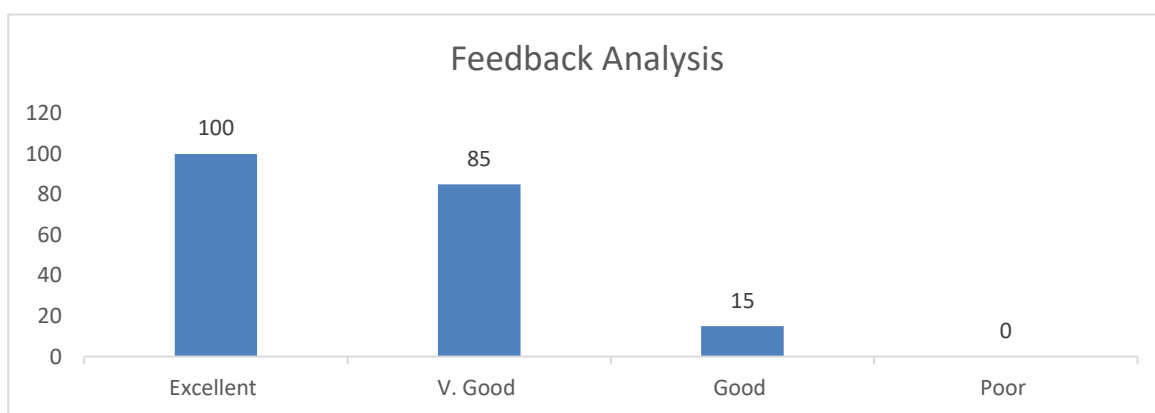
Feedback Analysis

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

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CONFERENCEREPORT

Second International Conferenceon Artificial Intelligence: Advances andApplications (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[th]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 ICAIAA 2021, **Dr. MukeshSaraswat,** Associate Prof., Jaypee Institute of Technology, Noida, **Dr. MahendraLalwani,** Associate Prof., RTU, Kota, **Dr. NilanjanDey,** Assistant Professor , Techno India College of Technology, Kolkata, **Ar.Rahul singhi**, **Director. Poornima Group** and **Dr. Mahesh M. Bundeles, Director, PCE,** General Chair ICAIAA 2021, **Dr. 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:

2ⁿᵈ International Conference on Artificial Intelligence: Advances and Applications-2021 (ICAIAA-2021)

March 27-28, 2021

In Association with Springer

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

TEQIP-III Technical Education Quality Improvement Programme

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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-2021, 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
- Collective Intelligence
- Differential Evolution
- Evolutionary Scheduling
- Machine Learning
- Ant Colony Optimization
- Artificial Intelligence In Modeling And Simulation
- Artificial Immune Systems
- Computer Vision And Speech Understanding
- Evolutionary Design
- Expert Systems
- Deep Learning
- Approximate Reasoning
- Natural Language Processing
- Brain-Machine Interfaces
- Data Mining
- Neural Network Theory and Architectures
- Human–Computer Interaction
- Nature Inspired Algorithm

Track-2 Intelligent Sensor, Devices & Applications

- Automatic Control
- 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
- CAD Design & Testing
- Computational Theories Of Learning
- Intelligent Sensor
- Information Retrieval
- Mechatronics
- 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
- Environmental/ Earth Sensing
- Pervasive Computing And Ambient Intelligence
- Synthesizing Controllers
- Industrial Monitoring
- Security and Privacy Data Mining
- Business intelligence

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 3-5 minutes query time. Presentation schedule will be displayed well before time.

Important Dates

Last Date of Paper Submission	:	January 25, 2021
Acceptance Notification	:	February 25, 2021
Camera Ready Paper	:	March 5, 2021
Last Date of Registration	:	March 10, 2021

CONTACT:
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Organized by

Registration Fees

Category	Fee	
RTU & BTU Faculty & Students (All the authors should be from RTU & BTU affiliated colleges)	100% Fee Waiver	
	India	Outside India
Regular Author Academician	5000 INR/-	100 USD
Regular Author Student (PG)	4000 INR/-	80 USD
Regular Author Student (UG)	3000 INR/-	60 USD
RTU & BTU Faculty & Students Attendee / Co Author (First Author is from RTU & BTU affiliated colleges & co Authors are from non RTU Organization)	60 % of Respective Category	60 % of Respective Category

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 of their research paper is not above 15 %. Manuscripts having similarity score more 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.icaiaa21.scrs.in/**
Paper submission Link : **https://easychair.org/conferences/?conf=icaiaa21**

Rajasthan Technical University, Kota
Poornima College of Engineering, Jaipur
Soft Computing Research Society

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

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, 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-Michniewska, Systems Research Institute, Polish Academy of Sciences		14:00 – 14:45
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 ALGORITHM AND EVIDENCE THEORY *Surbhi Solanki, Chetan Gupta, Dr. KalpanaRai and Dr. MinalSaxena*		
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 Various Machine Learning Techniques *VinayGautam*		
	TS02: Intelligent Sensor, Devices & Application		16:00 – 17:00
89	A Quick and Single-Ended Scheme for Fault Detection and		

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

	Khinchi	
	TS05: Artificial Intelligence	16:00 – 17:00
139	Predicting Survivability in Oral Cancer (OC) Patients *Diksha Sharma, NeelamGoel and Vivek Kumar Garg*	
158	Particle Swarm Optimization with Weighted Extreme Learning Machine for Software Change Prediction *Ruchika Malhotra, Deepti Aggarwal and PriyaGarg*	
174	Application of Machine Learning for Heart Disease Prediction *Mohsin Qureshi and NilimaWarke*	
207	ESTIMATION OF REFLECTION COEFFICIENT OF QUARTER CIRCLE BREAKWATER USING ARTIFICIAL NEURAL NETWORK *Shankara Krishna A, Vishwanath Mane and Subba Rao*	
214	Hybrid CNN – LSTM for Traffic Flow Forecasting *Rajalakshmi V and Ganesh Vaidyanathan S*	
	TS06: Artificial Intelligence	17:30 – 18:45
276	Flood Hazard Mapping of Kuttanaad Region, Kerala *JayatiVijaywargiya and Rama Rao Nidamanuri*	
177	A Divisive Hierarchical Clustering Algorithm to Find Clusters with Smaller Diameter to Cardinality Ratio *SadmanSadeedOmee and Md. Saidur Rahman*	
242	A conceptual framework based on conversational agents for the early detection of cognitive impairment *Moises Ruben Pacheco Lorenzo, Sonia Maria Valladares Rodriguez, Luis EulogioAnidoRifon and Manuel Jose Fernandez Iglesias*	
254	Multi Objectives for TCSC Placement using Self-Adaptive Firefly Algorithm *SelvarauRanganathan, PalanivelPanjamoorthy and EllappanVenugopal*	
284	Navigation App for People with Disabilities Through Store Accessibility Assessment *Christine Guo, Lawrence Han, Vicky Tang and Hao Tang*	
298	Optimization of Fractional Order PID Controller(FOPID)Using Cuckoo Search *TarunVarshney, VikassinghBhadoria, PravinSonwane and Nitin Singh*	
	TS07: Intelligent Sensor, Devices & Application	17:30 – 18:30
163	Impact of Overall Service Quality and Technology Factors on Intention to Use the Internet of Things (IoT) at Bescom *Kavitha Desai, Mahalakshmi S, Sivaretinamohan R and MacherlaBhagyalakshmi*	
186	Design of AMC based Metasurface Loaded Slot Antenna for Wideband RCS Reduction and Gain Improvement *Ankit Sharma, Animesh Chandra, Deepak Kumar, HimanshuPrajapat, Madan Kumar Sharma, Hridesh Kumar Verma and Aniket Chauhan*	
192	A Novel Hybrid ASO-NM Algorithm and Its Application to Automobile Cruise Control System *DavutIzci and SerdarEkinci*	
197	On the use of Machine Learning for Soil Condition Monitoring *VikashRameshar, Wesley Doorsamy and Babu Paul*	
279	Forest Fire Damage and Recovery Assessment	

	JayatiVijaywargiya and Rama Rao Nidamanuri	
	TS08: Computer Vision	17:30 – 18:30
111	A Method of Micro Pixel Similarity for Lung Cancer Diagnosis using Adaboost *Vaishnaw Kale*	
115	Application of hybrid of ACO-BP in Convolution Neural Network for effective Classification *Suruchi Chawla*	
141	FACE RECOGNITION AND MOBILE LOCATION DATA FOR CLASS ATTENDANCE MONITORING *Francis Somba, Simon Mwendia and Ezekiel Kuria*	
157	Early Epilepsy Seizure Prediction using CNN *Aditya Karmokar, Chris David, Shaun Jacob and RupaliDeshmukh*	
161	Advanced identification of Alzheimer's disease from brain MRI images using Convolution Neural Network *SoniyaLalwani, Rajesh Kumar, NehaRajawat, Bharat Singh Hada and MayankMeghawat*	
	TS09: Big Data Analytics	17:30 – 18:30
164	Transformer Deep Learning Model for Bangla-English Machine Translation *Argha Chandra Dhar, Arna Roy, Md. Ahsan Habib, M. A. H. Akhand and N. Siddique*	
176	Time Series analysis and Forecasting on crime data *Vimala Devi J and DrKavitha K S*	
201	Distributed Association Mining for discovering interesting rules for Tours and Travel Company *ManojSethi and Rajni Jindal*	
218	An application of OB-MFO for Optimal Bidding Strategy in Pay-as-bid auction environment *Pooja Jain and AkashSaxena*	
285	Wearable fall-detection using deep embedded clustering algorithm *JothiRamasamy*	

INAUGURALSESSION:

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

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RTU TEQIP-III Sponsored
2nd 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

Venue: Online ICAIAA Conference Hall (Webex)   **Time:** 12:30 pm to 01.50 pm

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.	Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana Audio) A. **Prof. R. A. Gupta**, Chief Patron and Hon'ble Vice-Chancellor RTU, Kota (**Chief Guest**) B. **Dr. Marcin Paprzycki**, Polish Academy of Science, Warsaw, Poland (**Guest of honour**) C. **Dr. Dhirendra Mathur**, RTU (ATU) TEQIP-III Coordinator D. **Dr. Harish Sharma**, Associate Professor, RTU Kota, Organizing Secretary ICAIAA 2021 E. **Dr. Jagdish Chandra Bansal**, Associate Prof., South Asian University, New Delhi F. **Dr. Mahendra Lalwani**, Associate Prof., Department of Electrical Engineering, RTU, Kota G. **Dr. Nilanjan Dey**, Assistant Professor (Senior Grade) Department of IT, Techno India College of Technology, Kolkata H. **Ar. Rahul Singhi**, Director, Poornima Group I. **Dr. Mahesh Bundele**, Principal & Director, PCE, General Chair ICAIAA 2021 J. **Mr. Pakaj Dhemla**, Vice Principal, PCE K. **Dr. Garima Mathur**, Organizing Secretary ICAIAA 2021	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, Poornima 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:

· **KatarzynaWasielewska-Michniewska**,

Systems Research Institute, Polish Academy of Sciences.

· **NilanjanDey**,

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
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ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

JIS University, Kolkata, India.

· **Montaz Ali**,

University of the Witwatersrand, Johannesburg, South Africa

· **PrashantJamwal**,

Nazarbayev University (NU), Astana, Kazakhstan

GLIMPSESOFPRESENTATIONS:

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
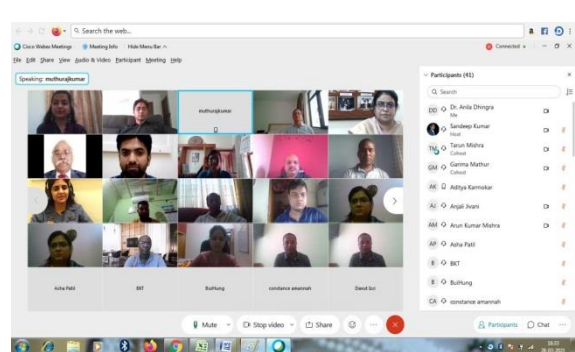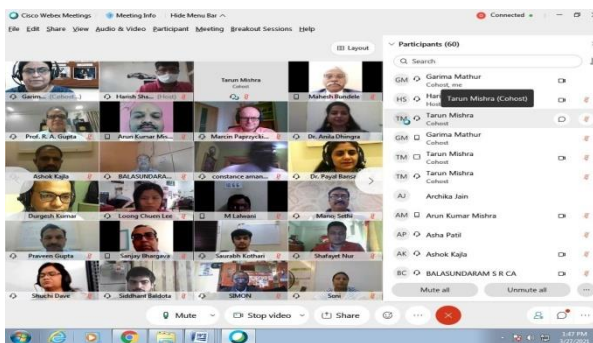ISI-6, RIICO Institutional Area
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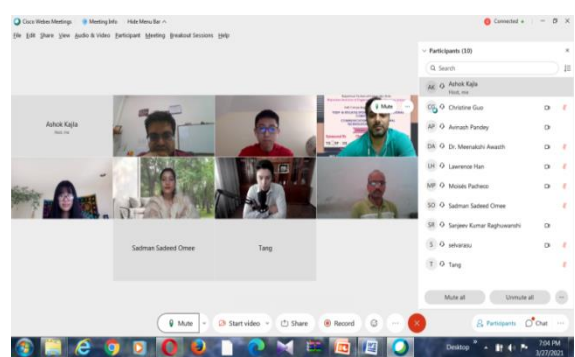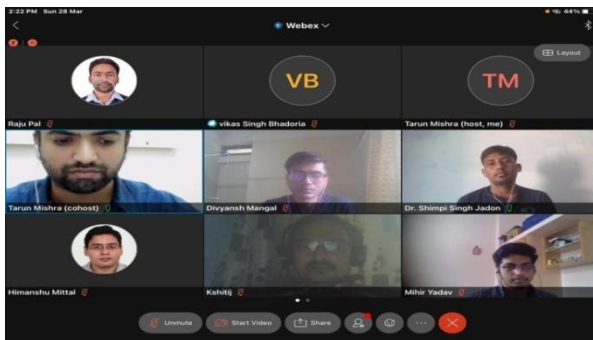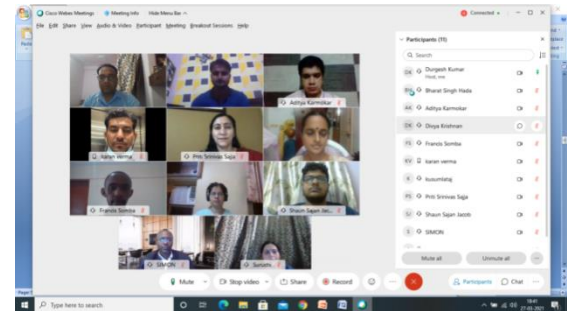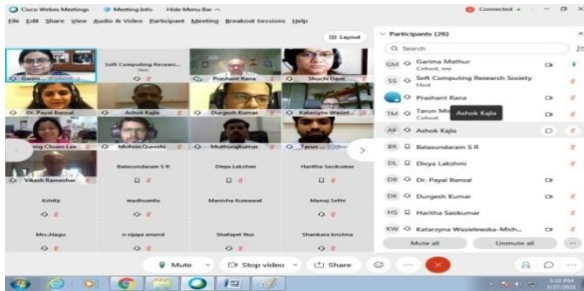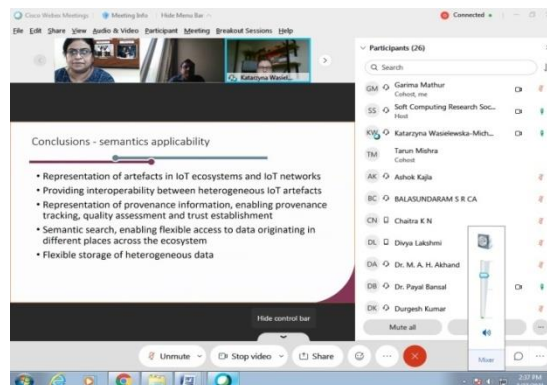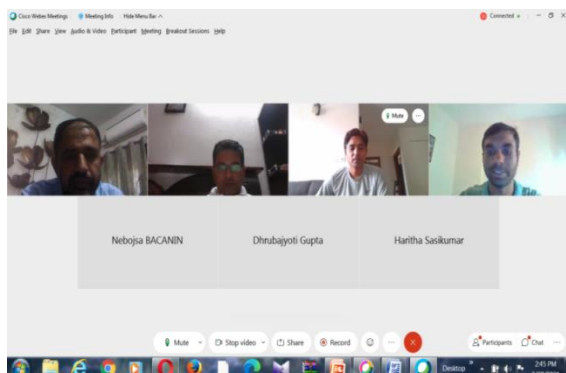
VALEDICTORYSESSION:

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

S.No	Activity	Duration	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,OrganizingSecretaryICAIAA2021 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 **Dr.GarimaMathur,**Organizing SecretaryICAIAA2021	05 Min	03:50pm-03:55 pm
5.	Participants Feedback online	05 Min	03:55pm-04:00 pm
6.	Address by **Dr.MaheshBundele,** Principal&Director,PCE,GeneralChair ICAIAA2021	05 Min	04:00pm-04:05 pm
7.	Address by **Prof. PrashantJamwal, NazarbayevUniversity (NU), Astana, Kazakhstan, Chief Guest**	10 Min	04:05pm-04:15pm
8.	**Award Announcement by By Prof. PrashantJamwal, Nazarbayev University (NU), Astana, Kazakhstan, Chief Guest**	05 Min	04:15pm-04:20 pm

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

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![Poornima College of Engineering logo]

POORNIMA
COLLEGE OF ENGINEERING

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:

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Scope: https://iopscience.iop.org/journal/1755-1315/page/scope
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THEMES / TRACKS:

TRACK 1: SUSTAINABLE ENERGY	TRACK 2: ENVIRONMENT	TRACK 3: GREEN TECHNOLOGIES
• Energy efficiency and rationale use of energy	• Environmental Chemistry and Pollution Control	• Energy Saving Technologies and Systems
• Renewable Energy	• Renewable Energy (Wind, Solar, Hydro, Geothermal)	• Green Technologies in Information
• Sustainable Technologies for Energy Conservation	• Bio-energy, Biomass and Bio-fuels	• Green Energy in Transport
• Heating, Ventilation and Air Conditioning (HVAC)	• Environmental Risk management	• Sustainable Cities, Architecture and Green Buildings
• Computational Models for Sustainable Development	• Waste Management and Waste Water Treatment	• Green Nanotechnology
• Energy Efficient Designs and Standards	• Low Carbon Economy and Society	• Greening Urbanization and Urban Settlements
• Renewable Energy Supply and Technologies	• Global Warming	• Green Energy Trade for Economic Development
• Energy Management, Policies, Economics and Sustainability	• Resource and Environment	• Green Design, Products and Manufacturing Processes
• Smart Grid / Smart City / Smart Mobility	• Automation Applications in Environmental Technology	• Green Power Systems and Smart Grids
• Energy and the Environment	• Greenhouse Gas Mitigation and Climate Change	• Emerging and Advanced Green Energy Technologies
• Energy Management Systems	• Water Pollution and Control	• Green Energy Policies and Programmes
• Sustainable Solutions in Developing Countries	• Solid Waste Valorization	• Rural Development through Green Energy
• Sustainable Materials		
• Sustainable Development Goals (SDGs) and Green Energy		
• Energy and Health		

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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:

International Conference on Sustainable Energy, Environment and Green Technologies (Virtual mode)
(ICSEEGT-2021)
March 5-6, 2021

SCOPUS Indexed Publication

IOP Conference Series Earth and Environmental Science

Supported by: ISTE, ASHRAE Rajasthan Chapter

All accepted and presented paper will be published in IOP Conference Series: Earth and Environmental Science

ICSEEGT -2021 COMMITTEES

STEERING COMMITTEE
- Michael G Pecht, Professor, University of Maryland, USA
- Essam E Khalil, Professor, Cairo University, Egypt
- Ing. Youcef Soufi, Larbi Tébessa University , Tébessa, Algeria
- Ravindra Nagar, Professor, MNIT Jaipur, India
- Sandeep Choudhary, Professor, IIT Indore, India
- S. S. Pabla, Professor, BSDU, Jaipur, India
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- Raj Kumar Satankar, Associate Professor, Department of Mechanical Engineering, Poornima College of Engineering, Jaipur, India

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CALL FOR PAPERS
Prospective authors from academia as well as industry are invited to submit their full length papers in ICSEEGT 2021 conference, which have not been yet submitted/ published. Topics of interest for submission include, but are not limited to.

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 Smart Grids
- Emerging and Advanced Green Energy Technologies
- Green Energy Policies and Programmes
- Rural Development through Green Energy

IMPORTANT DATES
- Last Date of Paper Submission: ~~Jan. 10, 2021~~ Jan. 31, 2021
- Acceptance Notification: ~~Jan. 30, 2021~~ Feb. 10, 2021
- Camera Ready Paper Submission: ~~Feb. 15, 2021~~ Feb. 15, 2021
- Last Date of Registration: February 15, 2021

REGISTRATION FEES

Category	Indian	International
Regular Author Academician/ Industry	~~9000 INR~~ 6000 INR	~~250 USD~~ 150 USD
Regular Author Student (PG/Research Scholar)	~~6000 INR~~ 5500 INR	~~200 USD~~ 125 USD
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- All the papers should strictly be prepared as per author guidelines of IOP Conference series format.
- The manuscript (Max 10 pages) should be thoroughly checked for grammatical or typographical errors before submission.
- Authors should ensure that the similarity score of their research paper should not above 20 %.
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Conference website	https://www.poornima.org/internationalconference/
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PROGRAM OUTLINE:

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-13:15PM	**Keynote session-I** *Session Link (Zoom):https://tinyurl.com/au7k8as2*	
	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-13:30PM	*Session Break*	
13:30PM – 15:30PM	**Technical Session-I:** *Emerging and Advance Technologies* *Session Link (Google Meet):https://tinyurl.com/session1t*	
	Session Chair: Dr. Salifu Tahiru Azeko, Tamale Technical	**Moderator: Dr. Payal Bansal,** Poornima College of Engineering

	University, Ghana	Jaipur, Rajasthan India
	Technical Session-II: *Sustainable Energy* **Session Link (Google Meet):** *https://tinyurl.com/session2t*	
	Session Chair: Dr. T.N. Verma, Maulana Azad National Institute of Technology Bhopal, India	**Moderator: Mr. Vikas Sharma,** Poornima College of Engineering, Jaipur, Rajasthan India
15:30PM – 15:45PM	*Session Break*	
15:45PM- 16:45PM	**Keynote session-II** *Session Link (Zoom):https://tinyurl.com/au7k8as2* *Title: Advances in Materials for Green Energy Storage technologies* **Speaker: Prof. M.V. Reddy,** Institute of Research Hydro-Québec, Centre of Excellence in Transportation Electrification and Energy Storage (CETEES), Hydro-Québec, Canada	

DAY-II: Saturday, March 6, 2021

TIME (IST)	EVENT	
10:00AM - 12:00 PM	*Technical Session-III: Green Technologies* *Session Link (Google Meet):https://tinyurl.com/session3t*	
	Session Chair: Dr. Pankaj Gupta, Malaviya National Institute of Technology Jaipur, India	**Moderator: Dr. Payal Bansal,** Poornima College of Engineering, Jaipur, Rajasthan India
	Technical Session-IV: Environment *Session Link (Google Meet):https://tinyurl.com/session4t*	
	Session Chair: Dr. Pradeep Kumar Gautam, National Institute of Technology, Meghalaya, India	**Moderator: Mr. Vikas Sharma,** Poornima College of Engineering, Jaipur, Rajasthan India
12:00PM - 12:15PM	*Session Break*	
12:15PM - 13:15PM	**Keynote session-III** *Session Link (Zoom):https://tinyurl.com/au7k8as2* **Title:** *Green technology, Innovative Nano-materials and Eco Sustainability* **Speaker: Dr. Alka Sharma**, Centre for Advanced Studies, University of Rajasthan, Jaipur, Rajasthan, India	
13:15PM- 13:30PM	*Session Break*	
13:30PM - 14:30PM	**Keynote session-IV** *Session Link (Zoom):https://tinyurl.com/au7k8as2* **Title:** *Green Energy Technologies for Sustainable Development* **Speaker: Prof. K. S. Reddy,** Indian Institute of Technology, Madras, India	
14:30PM- 16:00PM	*Session Break*	

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

PROGRAM SCHEDULE:

<u>PROGRAMME SCHEDULE (DAY-I)</u>

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 - 13:15PM	**Keynote session-I** Session Link (Zoom):*https://tinyurl.com/au7k8as2*
	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 - 13:30PM	*Session Break*
13:30PM – 15:30PM	**Technical Session-I:** *Emerging and Advanced Technologies* *Session Link (Google Meet):https://tinyurl.com/session1t*

Session Chair: Dr. Salifu Tahiru Azeko, Tamale Technical University, Ghana		Moderator: Dr. Payal Bansal, Poornima College of Engineering, Jaipur, Rajasthan India	
Time	**Paper ID**	**Title**	
13:35-13:45	ICSEEGT2021_T2_013	Impact of particulate matter on pre and post COVID locked down in the wards of urban Jaipur.	
13:45-	ICSEEGT2021_T2_08	Suitability assessment of	

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	13:55	9	groundwater for irrigation in some villages of Sirsa district, Haryana (India)
	13:55-14:05	ICSEEGT2021_T2_090	Process optimization for biodiesel production from highly acidic hibiscus cannabinus (Deccan hemp) oil
	14:05-14:15	ICSEEGT2021_T1_092	Effect of expanded graphite on nitrate based phase change materials being used in thermal energy storage systems
	14:15-14:25	ICSEEGT2021_T1_094	A sustainability index tool to measure environmental performance of an Indian city
	14:25-14:35	ICSEEGT2021_T1_101	Impact of cleaner production and environmental management systems on sustainability: the moderating role of industry 4.0
	14:35-14:45	ICSEEGT2021_T2_106	Environmental carbon footprint assessment of a LHB railway coach.
	14:45-14:55	ICSEEGT2021_T2_108	Life cycle analysis for the production of urea through Syngas.
	14:55-15:05	ICSEEGT2021_T1_110	Building and performance evaluation of novel solar cooking system in Gujarat, India
	15:05-15:15	ICSEEGT2021_T2_113	Experimental Investigation of Light Weight Concrete using Sintered Fly Ash Aggregates
	15:15-15:25	ICSEEGT2021_T1_100	Strategies for reduction of harmful emissions from diesel engines

	Technical Session-II: *Sustainable Energy*		
	Session Link (Google Meet):*https://tinyurl.com/session2t*		
	Session Chair: Dr. T.N. Verma, Maulana Azad National Institute of Technology Bhopal, India	**Moderator: Mr. Vikas Sharma,** Poornima College of Engineering, Jaipur, Rajasthan India	
	Time	**Paper ID**	**Title**
13:30PM – 15:30PM	13:35-13:45	ICSEEGT2021_T1_014	Measurement of Power in Distribution System using DTCWT based signal processing technique
	13:45-13:55	ICSEEGT2021_T1_016	Fabrication of pure Aluminium reinforced Graphene composite for heat sink applications
	13:55-14:05	ICSEEGT2021_T1_030	Women and social sustainability: A critical parametric evaluation of urban settings in developing countries.
	14:05-14:15	ICSEEGT2021_T1_035	A Multivariate Analysis of Factors influencing Green Energy
	14:15-14:25	ICSEEGT2021_T1_049	Change in fresh and rheological properties of mortar and concrete prepared using red mud - A review
	14:25-14:35	ICSEEGT2021_T1_055	Sustainable production of concrete using coir fibres
	14:35-14:45	ICSEEGT2021_T1_056	A critical study to assess the hurdles in adoption of sustainable walling materials in construction industry
	14:45-14:55	ICSEEGT2021_T1_063	CFD modelling and simulation of an indirect forced convection solar dryer

	14:55-15:05	ICSEEGT2021_T1_075	R&D Management as a Driver for Sustainable Agricultural Innovation and Adoption: Evidence from India
	15:05-15:15	ICSEEGT2021_T1_096	Influence of coco peat powder on the solar still productivity: An exergo-economic study
15:30PM – 15:45PM	TEA/COFFEE BREAK		
15:45PM - 16:45PM	**Keynote session-II** *Session Link (Zoom):https://tinyurl.com/au7k8as2* Title: Advances in Materials for Green Energy Storage technologies Speaker: **Prof. M. V. Reddy,** Institute of Research Hydro-Québec, Centre of Excellence in Transportation Electrification and Energy Storage (CETEES), Hydro-Québec, Canada		

PROGRAMME SCHEDULE (DAY-II)

DAY-II: Saturday, March 6, 2021

TIME (IST)	EVENT		
10:00AM - 12:00 PM	**Technical Session-III:** *Green Technologies* *Session Link (Google Meet):https://tinyurl.com/session3t*		
	Session Chair: Dr. Pankaj Gupta, Malaviya National Institute of Technology Jaipur, India	**Moderator: Dr. Payal Bansal,** Poornima College of Engineering, Jaipur, Rajasthan India	
	Time	**Paper ID**	**Title**
	10:05-10:15	ICSEEGT2021_T3_012	Review and Assessment of Factors Associated with Green Building Rating Systems
	10:15-10:25	ICSEEGT2021_T3_022	Retrieving spatial pattern of urban using spectral ratios for major features of an urban ecosystem with satellite image processing
	10:25-	ICSEEGT2021_T3_031	Impact of aspect ratio of floor

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Time	Paper ID	Title
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	Technical evaluation of sustainable cement containing fly ash and carbide lime sludge

Technical Session-IV: *Environment*

Session Link (Google Meet):https://tinyurl.com/session4t

Session Chair: Dr. Pradeep Kumar Gautam, National Institute of Technology, Meghalaya, India	Moderator: Mr. Vikas Sharma, Poornima College of Engineering, Jaipur, Rajasthan India

Time	Paper ID	Title
10:05-10:15	ICSEEGT2021_T2_024	Suitable sites identification for solid waste disposal using Geographic Information System and Analytical Hierarchy Process method in Debark town, north-western Ethiopia
10:15-10:25	ICSEEGT2021_T2_042	Don't Transfer Waste, Transform waste: A Sustainable Approach Towards Zero Waste Events Initiative During Hockey World Cup in Bhubaneswar, India
10:25-10:35	ICSEEGT2021_T2_047	Construction & demolition waste as an alternative of rigid pavement material: A Review
10:35-10:45	ICSEEGT2021_T2_059	A comparative study of two different type of metamaterial

The time block **10:00AM - 12:00 PM** spans the rows beginning at 10:05.

			unit cells for miniaturization and multiband of microstrip patch antenna at 2.4 ghz frequency
	10:45-10:55	ICSEEGT2021_T2_065	Faecal sludge management in urban environment, Omni Processor an innovative technology
	10:55-11:05	ICSEEGT2021_T2_077	Developing and Implementing Environment Management Practices in Small & Medium Size Manufacturing Companies in India
	11:05-11:15	ICSEEGT2021_T2_087	Building a Low Carbon Indian Economy
	11:15-11:25	ICSEEGT2021_T2_091	Building Resilient Future: Information Technology and Disaster Management. A Malaysian Perspective
	11:25-11:35	ICSEEGT2021_T2_104	A Portable Water Pollution Monitoring Device for Smart City based on Internet of Things (IoT)
	11:35-11:45	ICSEEGT2021_T2_105	Environmental impact assessment of coal gasification in hydrogen production.

12:00PM - 12:15PM	*Session Break*

12:15PM - 13:15PM	**Keynote session-III** *Session Link (Zoom):https://tinyurl.com/au7k8as2*
	Title: *Green technology, Innovative Nano-materials and Eco Sustainability* **Speaker: Dr. Alka Sharma,** Centre for Advanced Studies, University of Rajasthan, Jaipur, Rajasthan, India

13:15PM- 13:30PM	*Session Break*

13:30PM - 14:30PM	**Keynote session-IV** *Session Link (Zoom):https://tinyurl.com/au7k8as2*
	Title: *Green Energy Technologies for Sustainable Development* **Speaker: Prof. K. S. Reddy,** Indian Institute of Technology, Madras, India

14:30PM- 16:00PM	*Session Break*

16:00PM-17:00PM	Valedictory Function *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): *https://tinyurl.com/au7k8as2*

Anchors: Sarveen Sachdeva & 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
4	Welcome of Dignitaries ● **Dr. Damir Brdanovic,** Professor of Sanitary Engineering, IHE Delft Institute for Water Education, The Netherlands-**Chief Guest** ● **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 Technology, Delhi, India-**Guest of Honour** ● **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 ● **Dr. Rekha Nair,** Convener, ICSEEGT 2021 ● **Dr. Raj Kumar Satankar,** Convener, ICSEEGT 2021 ● **Dr. Harshwardhan Singh Chouhan,** Convener,	03 Min	11:48AM-11:51AM

	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 Saraswati Vandana)	**03 Min**	**11:51AM-11:54AM**
6	● Felicitation of Chief Guest **Dr. Damir Brdanovic,** Professor of Sanitary Engineering, IHE Delft Institute for Water Education The Netherlands, The Netherlands by **Dr. Mahesh Bundele**, Director and Principal, PCE, Jaipur, India, General Chair, ICSEEGT 2021 ● Felicitation of Guest of Honour **Dr. L. M. Das**, Former Professor, Indian Institute of Technology, Delhi, India, by **Ar. Rahul Singhi**, Director, Poornima Group, Jaipur, India ● Felicitation of Guest of Honour **Mr. Suneel Rajavaram,** Senior Global WASH Advisor, The Centre for Affordable Water and Sanitation Technology, Calgary, Albreta, Canada, by **Sh. Pankaj Dhemla,** Vice Principal, PCE**,** Jaipur, India	**03 Min**	**11:54AM-11:58AM**
7	out the conference by **Dr. Raj Kumar Satankar,** Convener, ICSEEGT 2021	**02 Min**	**11:58AM-12:00PM**
8	Welcome address by **Dr. Mahesh Bundele**, Director and Principal, PCE, Jaipur, India & General Chair, ICSEEGT 2021	**05 Min**	**12:00PM-12:05PM**
9	Address by **Ar. Rahul Singhi**, Director, Poornima Group, Jaipur, India	**05 Min**	**12:05PM-12:10PM**
10	Address by Guest of Honour **Mr. Suneel Rajavaram**, Senior Global WASH Advisor, The Centre for affordable water and Sanitation Technology, Calgary, Albreta, Canada	**05 Min**	**12:10PM-12:15PM**

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

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SVNIT, Surat, India

Dr. K B Rana,

MNIT, India

Dr. Varun Jain,

President, ASHRAE India Chapter, India

Dr. Jagdish Lal Raheja,

Chief Scientist and Group Head, Ceeri Pilani, India

Dr. Kishore Konda Chidella,

University of Nevada, Las Vegas

Dr. H. S. Mewara,

Govt. Engg. College, Ajmer, India

Dr. Rakesh Rathi,

Govt. Engg. College, Ajmer, India

Dr. A. K. Wadhwani,

MITS Gwalior, India

Dr. Dilip Sharma,

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

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

Sarveen Kaur Sachdeva,

Department of Applied Sciences, PCE, India

Kuldip Sharma,

Department of Applied Sciences, PCE, India

Ankit Singh Beniwal,

Department of Civil Engineering, PCE, India

Vikas Sharma,

Department of Civil Engineering, PCE, India

KEYNOTE SPEAKERS:

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

Abstract: Solutions for effective and sustainable faecal sludge management (FSM) represent a significant global need. Tremendous amounts of faecal sludge are produced globally on a daily basis from onsite sanitation: 2.7 billion people worldwide are served by onsite sanitation technologies and that number is expected to grow to 5 billion by 2030. FSM presents a global challenge. A new technological concept for sterilization and dehydration

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.

TITLE OF THE TALK	Advances in Materials for Green Energy Storage 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 University. He has been a speaker in various Universities in India, Malaysia, Indonesia, Europe, USA, South Africa, Iran, Iraq, Morocco, and Africa. He also had given popular Materials Science and Engineering outreach talks to college and high school students all over 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-materials and Eco Sustainability	
SPEAKER:3	**Dr. Alka Sharma** Centre for Advanced Studies, University of Rajasthan, Jaipur, Rajasthan, India	
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 & recognition (thrice) for Outstanding Contribution in Reviewing from the prestigious Journal – Corrosion Science, Elsevier).

Apart from various administrative responsibilities, she has also actively accomplished various assignments/duties in various capacities as and when assigned by University of Rajasthan

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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. Nano-materials 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 for Sustainable Development	
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 technologies for power generation and process heat applications through "Design-Development-Demonstration-Deployment (4-D)" approach. He has executed several research projects related to solar energy and energy & environment funded by various national and international agencies such as DST, MNRE, AICTE, RCUK, EPSRC, UKIERI 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:

S. No.	Certificate no	Presenter	Institute
1	ICSEEGT2021-AU-1001	Ms. Parveen	Bhartiya skill development university, jaipur rajasthan, india

		parihar	
2	ICSEEGT2021-AU-1002	Ms. Manasa putrevu	Indian institute of technology bhubaneswar argul, khordha, pin - 752050, odisha, india
3	ICSEEGT2021-AU-1003	Dr. Muralitharan 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. Amanpreet 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-110025, india
17	ICSEEGT2021-AU-1017	Mr. Rupanshu singh	Delhi technological university, delhi, india -110042
18	ICSEEGT2021-AU-1018	Ms. Kavya	College of engineering,pune

			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, india
33	ICSEEGT2021 -AU-1033	Dr. Anil dutt vyas	Manipal university jaipur
34	ICSEEGT2021 -AU-1034	Dr. Lokesh vijayvargy	Jaipuria institute of management jaipur, 1-bambala institutional area, pratap nagar, sanganer, jaipur, rajasthan, india

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. Mohammad nurul hassan reza	Multimedia university,faculty of management,persiaran multimedia,cyberjaya,selangor, malaysia
41	ICSEEGT2021-AU-1041	Mr. Piyushkumar m. Mistri	Government engineering college, modasa, dist. Aravalli, gujarat, india
42	ICSEEGT2021-AU-1042	Mr. Hardik saxena	India

SAMPLE COPY CERTIFICATE

VALEDICTORY SESSION:

S. No	Event	Duration	Time
1	Reporting of Delegates-On Zoom link	15 Min	16:00PM-16:15PM
2	**Welcome of dignitaries** • **Prof. K. S. Reddy,** Indian Institute of Technology Madras, India, **Chief Guest** • **Dr. B. Ravindra,** Indian Institute of Technology Jodhpur, India- **Guest of Honour** • **Ar. Rahul Singhi,** Director Poornima Group, Jaipur, India • **Dr. Mahesh Bundele,** Director and Principal, PCE, General Chair, ICSEEGT 2021 • **Mr. Pankaj Dhemla,** Vice Principal, PCE, Jaipur, India • **Dr. Rekha Nair,** Dean Academics, PCE, Jaipur, India, Convener, ICSEEGT 2021 • **Dr. Raj Kumar Satankar,** Convener, ICSEEGT 2021 • **Dr. Harsh Wardhan Singh Chouhan,** Convener, ICSEEGT 2021 • **Dr. Narayan Lal Jain,** Professor & Head, Mechanical Engineering Department, PCE, Jaipur, India • **Sh. Balwan Sheshma,** Head, Civil Engineering Department, PCE, Jaipur, India	03 Min	16:15PM-16:18PM
3	• 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 • Felicitation of Guest of Honour **Dr. B Ravindra,** IIT Jodhpur by **Ar. Rahul Singhi,** Director, Poornima Group, Jaipur, India	02 Min	16:18PM: 16:20PM
4	Welcome Address by **Ar. Rahul Singhi,** Director Poornima Group	02 Min	16:20PM-16:22PM
5	Report by **Dr Rekha Nair,** 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 **Dr. Mahesh Bundele,** General Chair, ICSEEGT 2021	05 Min	16:33PM-16:38PM
9	Address by Guest of Honour **Dr. B. Ravindra,** 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-16.53PM
11	Vote of Thanks by **Dr. Raj Kumar Satankar,** Convener, ICSEEGT 2021	02 Min	16:53PM-16:55PM
12	**Group Photograph** -Virtual	05 Min	16:55PM-17:00PM

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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?
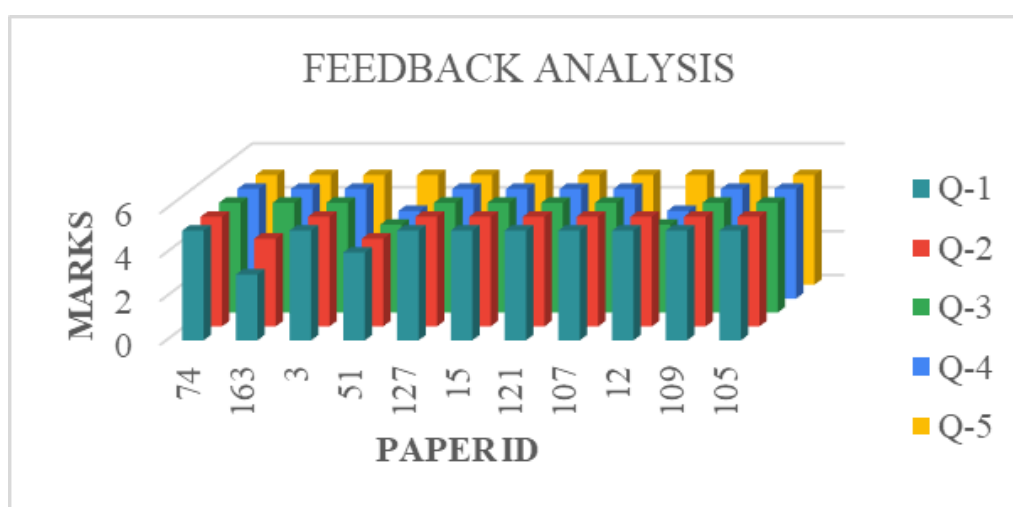
SWOT ANALYSIS: Nil

BUDGET & ACTUALS:

S. NO.	EXPENDITURE	RATE	QUANTITY	AMOUNT (INR)
1	Session Chair Honorarium			12000
2	Best Paper Award			8050
3	Paper Publication Fee (@ 80 Dollar)	5200	42	218400
4	Souvenir Print	4000	3	12000
5	Inaugural Expenditure			
6	Other Expenditure			
			TOTAL EXPENDITUTRE	250450

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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.

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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

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

BROCHURE / POSTER / LEAFLET / FLYER:

FOURTH IEEE INTERNATIONAL CONFERENCE ON
RECENT ADVANCES AND INNOVATIONS IN ENGINEERING
(ICRAIE - 2 019)
IEEE CONFERENCE RECORD # 4 7 7 3 5

Technically Sponsored by:

Co-Organizer:

Supporters:

Organized by:

UiTM Kedah, Malaysia

IEEE Malaysia &
Poornima College of Engineering, Jaipur

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	Track2ECE	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 at Big Data Lab. The guest of honor, is Associate Professor Dr. Maxim Mozgovoy from the University of Aizu Japan.

The sessions continued with a skype presentation from the honorable keynote speaker from Prof. Rajkumar Buyya from the University of Melbourne, Australia. The title of the presentation is "New Frontiers in Cloud 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 (28th 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 Jerai Hall, UiTM Kedah
10:30am – 11:00am	Refreshment
11:00pm – 12:00pm	Keynote Address by Prof. Rajkumar Buyya, 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 Mozgovoy, University of Aizu, Japan Title: Multiplatform Automated Software Testing: Personal Experience
02:50pm – 03:20pm	Plenary Speaker by Dr Mahesh Bundele, Poornima College of Engineering Rajasthan, Jaipur, India Title: Scientific Research Paper: Reading & Writing

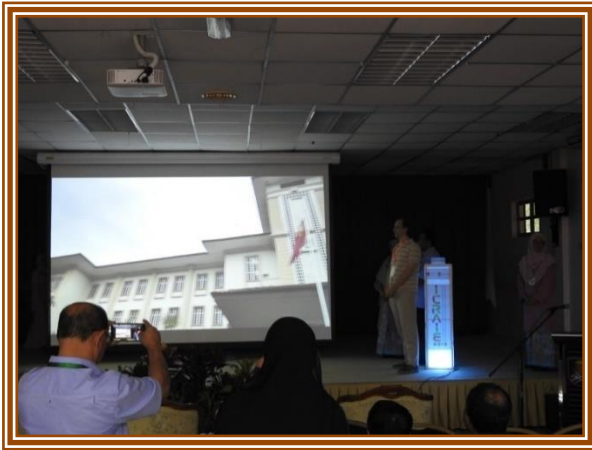| 03:30pm – 04:30pm	OPENING CEREMONY	
	3.30 pm – 3.40pm	Arrival of VVIPs
	3.40 pm – 3.50 pm	Negaraku & UiTM Di Hatiku MC's Welcoming Speech & Doa Recitation
	3.50 pm – 4.00 pm	Welcoming Speech of Conference Chair 1
	4.00 pm – 4.10 pm	Officiating Speech of Deputy Rector of Academic Affairs
		Gimmick &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

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Dr. Mahesh Bundele
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DAY 2: Friday (29th Nov 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

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GLIMPSES OF PRESENTATIONS:

IRex 2019 UiTM Kedah Branch 19.09.19

Dr. Mahesh Bundele
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Conference Tour
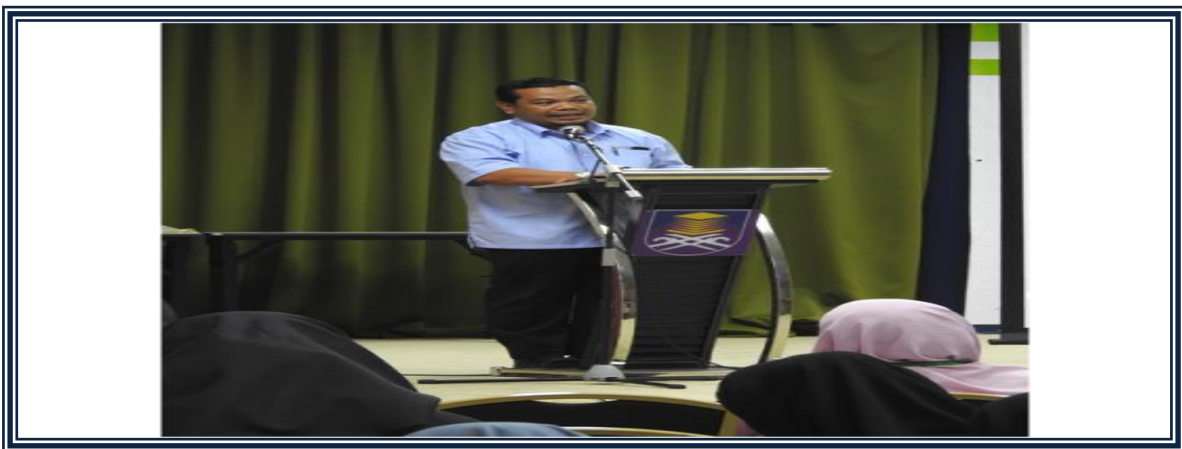### DAY 2 Friday - 29th November 2019

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.

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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		
		Track 1: Computer Science Engineering / Information Technology		
S.No	*ID*	*Authors*	*Paper*	*Name of Attendees*
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 Evacuation with Stochastic Obstructed Emergency Exit	Yong Jonathan Chung Ee

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 Images Classification	Boezura Borhanuddin

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19.	64	Suhanah Rosnan Nurazzah Abd Rahman Shahirah Mohamed Hatim Zahirah Hamid Gul Universiti Teknologi MARA Johor, Perak, Shah Alam, Malaysia)	Performance Evaluation of Inverted Files B-Tree and B+Tree Indexing Algorithm in Malay Text	Shahirah Mohamed Hatim
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 Elias Siti Nurbaya Ismail (UiTM Kedah)	Evaluation of e-Content for Adult Learners in a Distance Education Program: A Case Study	Siti Nurbaya Ismail
26	80	Taniza Tajuddin Azizah Abdul Manaf,	Crime Suspect Profiling (CSP) for Forensic	Taniza Tajuddin

		Nor Fatimah Awang, Siti Rafidah Muhamat Dawam, Noor Rasidah Ali Rafidah Amat (UiTM Kedah)	Investigation on Smartphone	
Track 2: Electronics And Communication Engineering				
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 Dictionaries	Sridhar K V

|				
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:Electrical 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

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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;**

	Attributes	Comments	No. Of Comments
Program	How was the seminar?	Excellent	28
		V. Good	9
		Good	2
		Poor	0
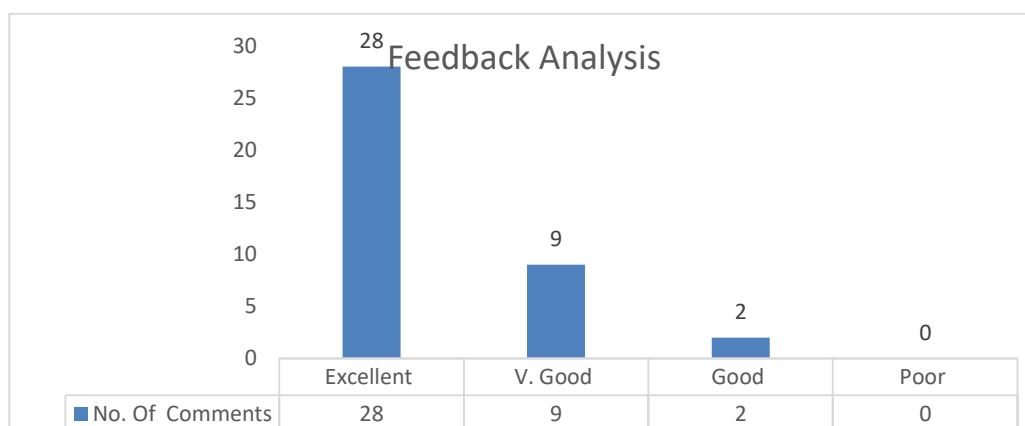
SWOT ANALYSIS:

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

CONFERENCEREPORT

International Conferenceon Artificial Intelligence: Advances andApplications (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)
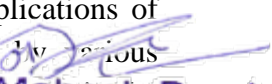
PUBLISHER(S): Springer

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 also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Engineering Applications of Artificial Intelligence. In this conference covers research works carried out by various students such as bachelor, master and doctoral scholars, faculty and industry persons.

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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:

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

JUNE 28-29, 2019

In Association with Springer

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

TEQIP-III

ICAIAA-2019 COMMITTEES

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Neelima Singh, Vice Chancellor, RTU, Kota

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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- 2019, 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-1 Artificial Intelligence

- Agent-Based Systems
- Ant Colony Optimization
- Approximate Reasoning
- Bioinformatics And Computational Biology
- Artificial Intelligence In Modeling And Simulation
- Natural Language Processing
- Artificial Life
- Artificial Immune Systems
- Brain-Machine Interfaces
- Collective Intelligence
- Computer Vision And Speech Understanding
- Data Mining
- Differential Evolution
- Evolutionary Design
- Neural Network Theory and Architectures
- Evolutionary Scheduling
- Expert Systems
- Human–Computer Interaction
- Machine Learning
- Deep Learning
- Nature Inspired Algorithm

Track-2 Applications of AI

- Automatic Control
- 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
- CAD Design & Testing
- Computational Theories Of Learning
- Intelligent Sensor
- Information Retrieval
- Mechatronics
- 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
- Environmental/ Earth Sensing
- Pervasive Computing And Ambient Intelligence
- Synthesizing Controllers
- Industrial Monitoring
- Security and Privacy Data Mining
- Business intelligence

Registration Fees

Category	Fee	
RTU & BTU Faculty & Students (All the authors should be from RTU & BTU affiliated colleges)	100% Fee Waiver will be given	
Regular Author Academician	5000 INR/-	100 USD
Regular Author Student (PG)	4000 INR/-	80 USD
Regular Author Student (UG)	3000 INR/-	60 USD
Attendee / Co Author (First Author is from RTU & BTU affiliated colleges & co Authors are from non RTU Organization)	60% of Respective Category	60% of Respective Category

Important Dates

Last Date of Paper Submission : April 15, 2019
Acceptance Notification : May 31, 2019
Camera Ready Paper : June 15, 2019
Last Date of Registration : June 20, 2019

WRITE TO US:
Track 1: icaiaa.ai@poornima.org
Track 2: icaiaa.sda@poornima.org
http://www.icaiaa-2019.poornima.org

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PAPER SUBMISSION

All the review manuscripts should be submitted in PDF format without authors name and affiliations using Easy Chair Conference Management Systems written as per Springer Template in Word (A4). However the names of all authors should be registered on easy chair while submission.

Paper submission Link : https://easychair.org/conferences/?conf=icaiaa2019

Organized by

Rajasthan Technical University, Kota
Poornima College of Engineering, Jaipur
Poornima Institute of Engg. and Tech., Jaipur

Conference Venue

POORNIMA COLLEGE OF ENGINEERING
ISI-6 RIICO Institutional Area, Sitapura, JAIPUR – 302022 (Raj.), INDIA
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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
Total No. of Papers Presented	22	18	40

PROGRAMOUTLINE:

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

Programme Outline
Friday, Day 1: 28th June, 2019

Time	
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	**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. Vishnu Vardhan, JNTU, Hyderabad, Organizing Chair ICAIAA 2019 E. Prof. Harish 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	**Plenary Talk 2** Speaker: Dr. Swagatam Das, Associate Professor, EC, Sciences Unit of the Indian Statistical Institute, Kolkata, India *Title: Predictive and Generative Deep Inference Models: Perspectives and Recent trends*
12.30 pm - 01.30 pm	**Lunch Break- Transfer from PIET to PCE**
01.30 pm – 2.30 pm	**Parallel Technical Sessions** **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**
03.00 pm – 03.30 pm	**Plenary Talk 3** 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*
03.30 pm – 04.00 pm	**Plenary Talk 4** Speaker: Dr. Jagdish Chand Bansal, Assistant Professor (Senior Grade), Department of Mathematics, South Asian University, New Delhi *Title: Artificial Intelligence & Environment*
04.00 pm – 05.00 pm	**Parallel Technical Sessions** **Session 2A** Seminar Hall CG-05 Health Care Applications / **Session 2B** IT Seminar Hall AG-03 Filter Design and Instrumentation Amplifier / **Session 2C** Seminar Hall AB-05 Miscellaneous Applications

INAUGURALSESSION:

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International Conference on *Artificial Intelligence: Advances and Applications*
ICAIAA-2019-(28-29 June 2019)
Organized by:
Poornima College of Engineering, Poornima Institute of Engineering & Technology, Jaipur
Rajasthan Technical University, Kota and Jawahar Lal Nehru Technological University, Hyderabad
Inaugural Session
Friday, June 28, 2019
Venue: Arbuda Convention Centre, PIET, Jaipur
Time: 10 AM to 11.30 AM

S. No	Activity	Duration	Time
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
3.	Gathering of audience in Arbuda	20 min	9.40 am – 10.00 am
4.	**Arrival of Guests & Group Photograph of Dignitaries**	02 Min	9.58 am- 10.00 am
5.	Welcome of Dignitaries by the anchors & Ganesh Vandana	05 Min	10:00 am-10:05 am
6.	Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana Audio) 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. 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, PIET, Organizing Chair ICAIAA 2019 I. **Ar. Rahul Singhi**, Director, Poornima Group J. **Dr. Garima Mathur**, Organizing Secretary ICAIAA 2019	03 Min	10:05 am-10:08 am
7.	A. **Felicitation of Chief Guest 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 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 Prof. Harish Sharma**, RTU Kota by **Mr. Pankaj Dhemla**, Vice Principal, PCE F. **Felicitation of Dr. Jagdish Chandra Bansal**, SAU, New Delhi by **Dr. Garima Mathur** Organizing Secretary ICAIAA 2019	05 Min	10:08 am-10:13 am
8.	Release of Conference Souvenir & Proceeding by Dignitaries	03 Min	10.13 am-10.16 am
9.	Welcome Address & About Conference **Dr. Mahesh Bundele**	05 Min	10:16 am-10:21 am
10.	Introduction & Address by **Dr. Dinesh Goyal**, Director, PIET	04 Min	10.21 am-10.25 am
11.	Introduction & Address by **Ar. Rahul Singhi**, Director, Poornima Group.	05 Min	10.25 am-10.30 am
12.	Introduction & Address by **Dr. Jagdish Chandra Bansal**, Associate Prof., South Asian University New Delhi.	05 Min	10.30 am-10.35 am
13.	Introduction & Address by **Prof. Harish Sharma**, Organizing Chair ICAIAA 2019	05 Min	10.35 am-10.40 am
14.	Introduction & Address by **Prof. B. Vishnu Vardhan**, JNTU, **Hyderabad**	05 Min	10.40 am-10.45 am
15.	Introduction & Address by **Prof. Dr. Uday A. Dabade**, Professor, Department of Mechanical Engineering, WCE, Sangli, **State Project Administrator of SPIU (TEQIP III)**	10 Min	10:45 am-10:55 am
16.	Introduction & Words of blessing by **Dr. S. M. Seth**, Chairman (Emeritus), Poornima Foundation	10 Min	10:55 am-11:05 am
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)	20 Min	11:05 am-11:25 am
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 the IndianStatistical Institute, Kolkata, India

Title: Predictive and Generative Deep Inference Models: Perspectives and Recent trends

· **Dr. Kottakkaran Sooppy Nisar**, Associate Professor, Department of M

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:

Dr. Mahesh Bundele
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VALEDICTORYSESSION:

International Conference
on
Artificial Intelligence: Advances and Applications **(ICAIAA-2019)**
28-29th 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
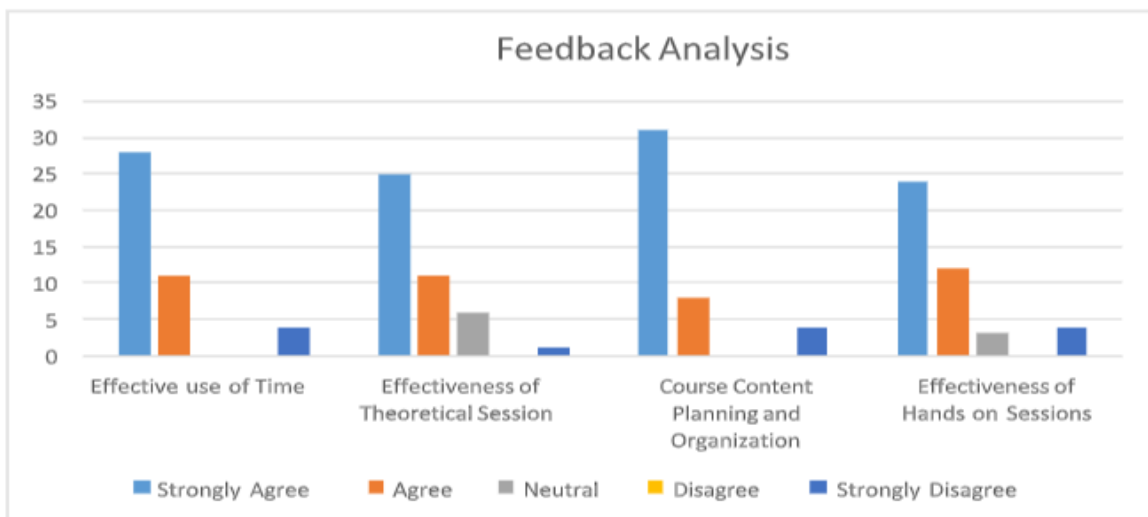**Wednesday**, January 9, 2019
Venue: CG-05, PCE
Time: 4.00 m to 5.00 pm

Sr. No	Activity	Duration	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 pm
5.	Address by **Dr. Manoj Gupta, Pro-President PU**	5 Min	4.10 pm-4.15 pm
6.	Address by **Dr. Shabana Urooj**, Workshop Organizer, PerCAA 2019	5 min	4.15 pm-4.20 pm
7.	Certificate Distribution at the Hands of Dignitaries	10 Min	4.20 pm-4.30 pm
8.	Participants Feedback	10 Min	4.30 pm -4.40 pm
9.	Introduction & Address by **Dr. Rahul Banerjee**, Director LNMIIT, Jaipur	10 Min	4.40 pm- 4.50 pm

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10.	Vote of Thanks by **Dr. Ajay Khunteta**	05 Min	4.50 pm-4.55 pm
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
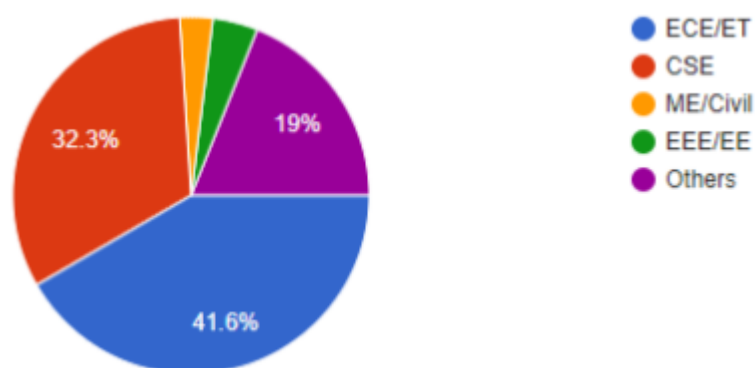
Feedback Analysis

SWOTANALYSIS:

- ECE/ET
- CSE
- ME/Civil
- EEE/EE
- Others

41.6% 32.3% 19%

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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

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• 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.
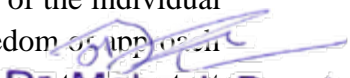
The main objectives are to:
• Create industry effective curriculum and courses
• Establish effective collaboration and cooperation among institutions
• Initiate fellowships, scholarships and awards
• Identify new growth areas
• Create new research and development platform
• Provide orientation and approach/practices 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 specialized areas.

The directions/ guidelines issued by the PJ Foundation will be followed and adhered to by the participating colleges in all seriousness. In the day-to-day management of the individual colleges, the foundation will have no direct role and they will have full freedom of approach and practice. The foundation is not intended to interfere in their working ex

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 & 8th,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 ASHRAE India Chapter. He handed over the certificate of Best Student Chapter Award to Dr. Om Prakash Sharma and Mr. Shailendra Kasera.

The Chief Guest Dr. Bruce D. Hunn, Consultant, Building Energy Analysis & Former Director, Strategic Technical Programs, ASHRAE delivered the inaugural address in his

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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:

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Sitapura, JAIPUR

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	10:30 am
11	Technical Sessions Lecture by Dr. Bruce D. Humm on Best Practice for	10:30-11:30 am

	Evaluating and Improving the Performance of Commercial Buildings	
12	Lecture by Dr. S.C. Bhaduri on Impact of Kigali amendment on refrigeration industry	11:30-12:05 pm
13	Lecture by Dr. Jyotirmay Mathur on Radiant Cooling	12:05-12:40 pm
14	Presentation by U.P. Twiga Fiberglass Limited	12:40-01:05 pm
15	Photo Session (PCE Porch)	01:05- 01:15 pm
16	Lunch at PCE Mess	01:15-2:00 pm
17	Lecture by Mr. Sameer Maithel on Energy Efficient Building Envelope for Residential Buildings	02:00 - 02:30pm
18	Lecture by Mr. Kanagraj Ganeshan on Low Energy Cooling Systems	02:30 -03:00 pm
19	Lecture by Mr. Neeraj Arora, Senior Director, ASSOCHAM on Green Building – Stop Nature being a Historical topic	03:00-03:30 pm
20	High Tea	03:30-04:00 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

Day - 2

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

S.No	Activity	Time
1	Breakfast at PCE Mess	08:30-09:30 am

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2	Registration	09:30-09:45 am
3	Technical Parallel Session	09:45-12:00 noon
4	Photo Session (Outside PCE, Main entrance)	12:00-12:05 pm
5	Lunch at Poornima College of Engineering (Mess)	12:05-01:00 pm
6	**Valedictory Session** a. Brief overview of the conference b. Discussion on issues related to Refrigeration and Energy Systems c. Feedback of participants d. Distributions of certificates e. Vote of Thanks and concluding remarks	01:00-01:30 pm
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

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

<u>Local Organisingcommittee</u>

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

<u>Local OrganisingMembers</u>

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

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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

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 recipient of the DistinguishedService Award. Dr. Hunn holds BS, MS, and Ph.D degrees in Mechanical Engineeringfrom Stanford University and a BA in Engineering from the University of Redlands.

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

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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 ofapplication. Examples of applications to the ASHRAE Headquarters Building arepresented.

CONTENTDELIVERY/PRACTICALSESSIONS:

GLIMPSESOFPRESENTATIONS:

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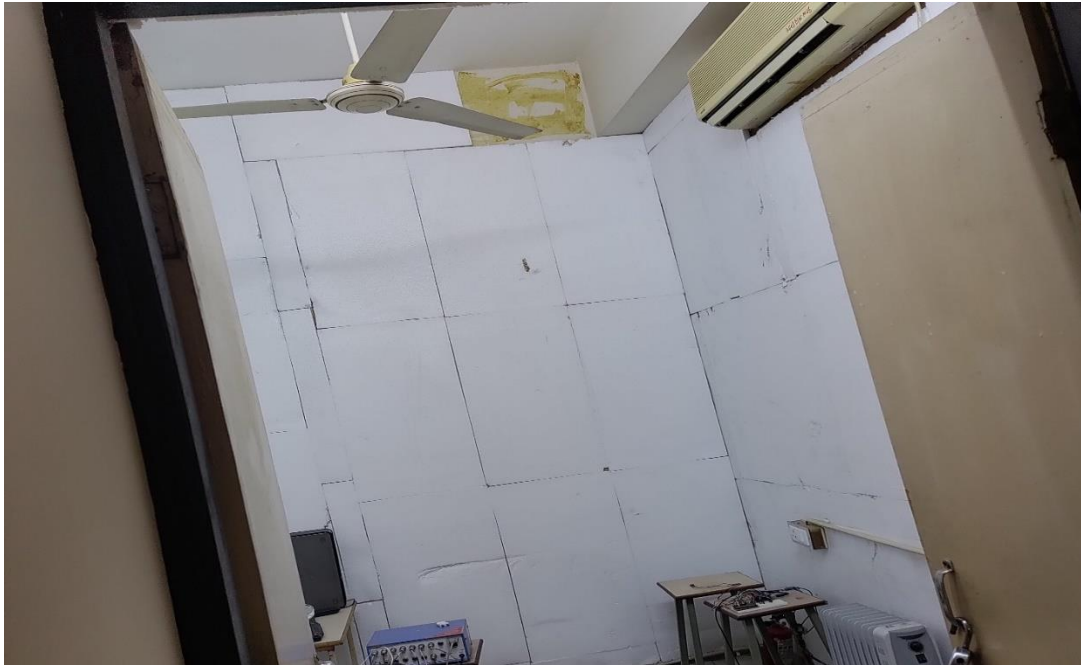
LISTOFPARTICIPANTS:

S No	PAPER ID	ALL VENUES-POORNIMA COLLEGE OF ENGINEERING	DATE-08-04-2018		
		TECHNICAL SESSION I (FACULTY CO-ORDINATOR-YOGESH MISHRA)			
S No	PAPER ID	TITLE	AUTHORS	TIMING	VENUE
1	ICARES-2018/01	Simulation and Performance Analysis of Shell and Tube Heat Exchanger	Nishant Wadhwa, Geetanjali Raghav	09:45-10:00AM	
2	ICARES-2018/02	A Review of Variable Refrigerant Flow Systems (VRF)	Zoe Dickson, Marc Armitage, Ritvik Mathur, Shailendra Kasera	10:00-10:15 AM	
3	ICARES-2018/03	Thermal Performance Analysis of the Pulsating Heat Pipe for Hybrid Vehicle Applications	Surajit Choudhury, Dr. Ashok K Dewangan	10:15-10:30 AM	

				TIMING	VENUE
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 (FACULTY CO-ORDINATOR-BHAVESH DEVRA)			
				TIMING	**VENUE**
11	ICARES-2018/11	Basic Study of Steam Turbine	Dheeraj Kumar Dabhi, Abhay Singh	09:45-10:00AM	

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12	ICARES-2018/12	A Study of Automobile Air Conditioning System	Aditya Kumar, Dharma Raj Yadav, Dhruva Khandal	10:00-10:15 AM	
13	ICARES-2018/13	Prevention of Air Pollution at the Very Generation and It's Purification: A Review	Anshul Maheswari And Chandan Kumar	10:15-10:30 AM	
14	ICARES-2018/14	Block chain Technology	Anurag Jain & Sakshi Mishra	10:30-10:45 AM	
15	ICARES-2018/15	A Comprehensive Review on Small Scale Wind Turbines	Amit Mandal	10:45-11:00 AM	AB-05
16	ICARES-2018/16	A Review on Dual Clutch Transmission	Anshu Kumar Patel	11:00-11:15 AM	
17	ICARES-2018/17	Evaluation of Performance and Vibration Analysis Of Annular Disc by Using Finite Element Method	Asha Kumawat, Ankit Saharan, Akshay Shrivastav	11:15-11:30 AM	
18	ICARES-2018/18	Analysis of Thermal Performance in Three Sides Artificially Roughened Solar Air Heaters	Dr. Arun Kumar Behura, Dr. Ashwini Kumar, Dr. Ravi Kumar	11:30-11:45 AM	
19	ICARES-2018/19	Review on 3D Printing Technology	Devesh Pratap Singh, Digvijay Singh Nirwan	11:45-12:00 PM	
20	ICARES-2018/20	Building Energy Simulation –A Case Study in Composite Climate in India	Dinesh Chand Sharma, Abhay Raj	12:00-12:15 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, Ankuj Sekhawat, Govind Kumar Parashar	09:45-10:00AM	

22	ICARES-2018/22	Mass Customized Manufacturing Practices: The Role Of Big Data and Analytics with Multiple Indian Cases	Dr. J.K. 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, Sudhanshusingh, Shatrughan Singh, Ashok Kumar Yadav	10:45-11:00 AM	CONFERENCE 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	Chandrashekhar, 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, Onur Kiymaz	12:15-12:30 PM	
		TECHNICAL SESSION IV			

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

			Robin Gupta		

LIST OF REGISTERED CANDIDATES/LIST OF ATTENDED CANDIDATES

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

		Dharma Raj Yadav, Dhruva Khandal	
13	ICARES-2018/13	Anshul Maheswari And Chandan Kumar	Prevention of Air Pollution at the Very Generation and It's Purification: A Review
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19	ICARES-2018/19	Devesh Pratap Singh, Digvijay Singh Nirwan	Review on 3D Printing Technology
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26	ICARES-2018/26	Sagar Kumar, Vikas Kumar	Thermal Analysis of Rapid Tooling Mold Integrated with Conformal Cooling Channels
27	ICARES-2018/27	Praveen Kumar Tyagi, Dr. Arun	Experimental Investigation of Surfactant Effect on Heat Transfer Characteristics

		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
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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:

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FEEDBACKANALYSIS:

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? *

1	2	3	4	5
○	○	○	○	○

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

1	2	3	4	5
○	○	○	○	○

FEEDBACK ANALYSIS
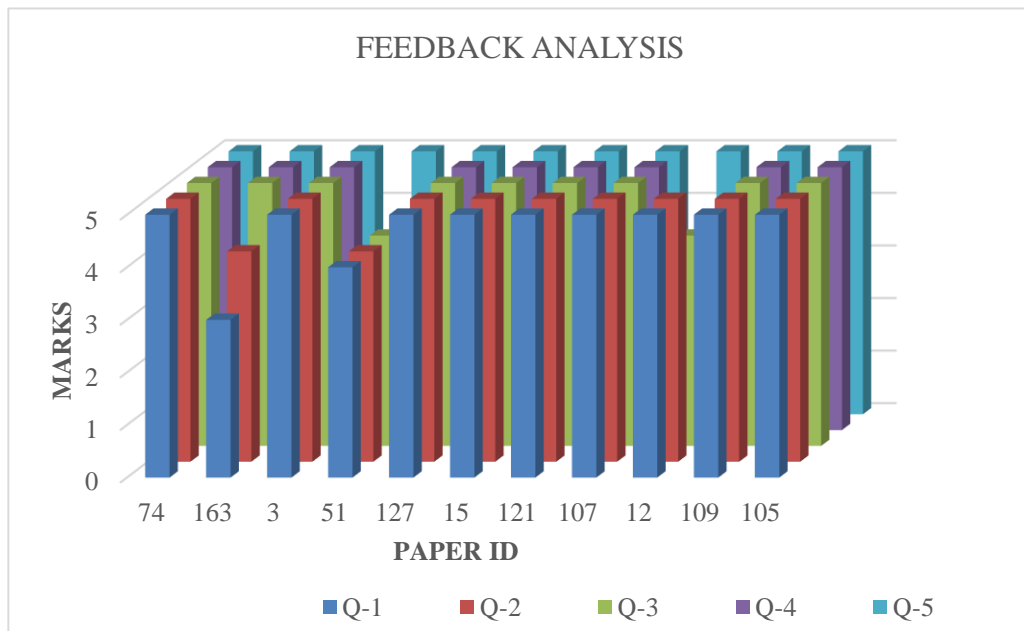
SWOTANALYSIS: Nil

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

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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
Executive Summary of Project (Brief Description not exceeding 50 words)	In this project, an experimental investigation on performance of solar power driven vapor compression milk refrigerator with R290 refrigerant using hybrid nanomaterials will be carried out in high ambient conditions. It is based on the concept of Variable Refrigerant Flow (VRF).
Project Details	

Objective: • Use of solar DC power to run the milk refrigerator

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• 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_2O_3-TiO_2, Al_2O_3 – CuO, Al_2O_3 –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

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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
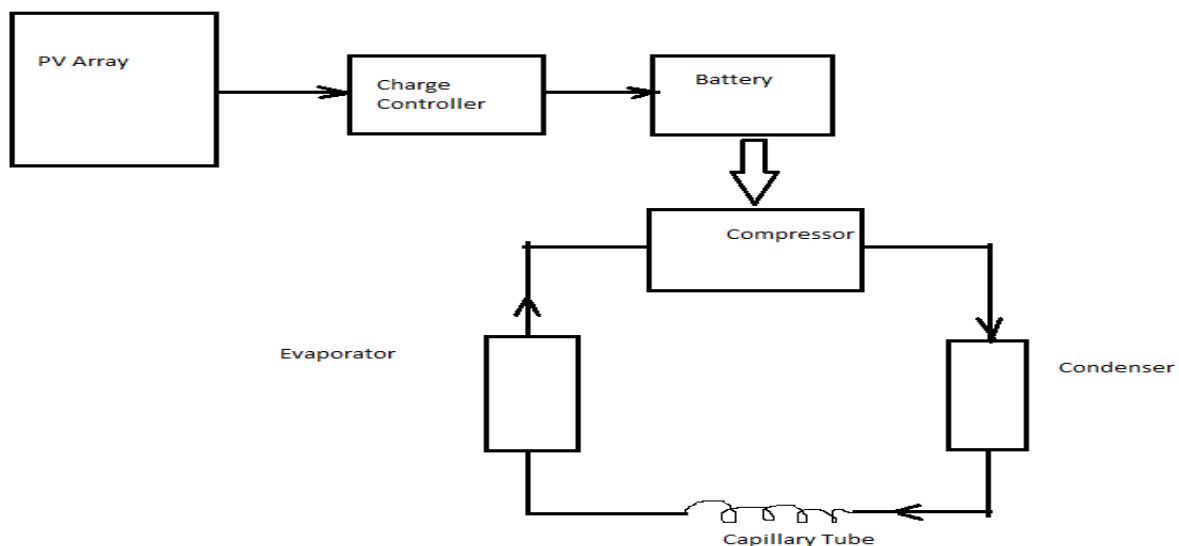
Preparation of Hybrid nanorefrigerant:

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_2O_3-TiO_2, Al_2O_3 – CuO, Al_2O_3 –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 nanoparticles.

Testing:

The primary operating principle of present system is as following: when the power generated by PV array is higher than the chiller power, the chiller 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 electrical energy provided 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
1	Students	Fabrication and Testing
2	Guide	Design and Management

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