POORNIMA
COLLEGE OF ENGINEERING

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

CONFERENCE REPORT

- **TITLE AND DURATION:** 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 / PART NO. / INDEXING AGENCY:** 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

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innovations, and ideas at an international platform.

EXPECTED OUTCOMES:

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.

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			

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BROCHURE / POSTER / LEAFLET / FLYER:

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:

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

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

Organized by:

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

SUMMARY / CATEGORIZATION OF PARTICIPANTS:

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

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

A target of 100 papers for the three tracks Computer Science & Information Technology, Electronics & Communication Engineering, and Electrical Engineering. EDAS conference management system has been used. The enthusiastic response was received all around – 298 full manuscripts were uploaded on EDAs from 8 countries. Total of 160 reviewers across the world consented to and reviewed the papers. 97 papers were accepted after a rigorous review procedure, making it very selective. 91 registered and presented papers were distributed in a total of 29 Oral Sessions in virtual mode during December 1-3, 2021. A total of 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-iwfs-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-uyz
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-siwh-kmc
11	3A	https://meet.google.com/rzp-grzz-usm
12	3B	https://meet.google.com/kmb-oenv-rqx
13	3C	https://meet.google.com/zgg-ixqw-euw
14	4A	https://meet.google.com/vut-jppu-kbm
15	4B	https://meet.google.com/dni-xvss-yvi
16	4C	https://meet.google.com/eag-ttqc-qyw
17	4D	https://meet.google.com/vnu-vdgh-bmd
18	5A	https://meet.google.com/rbh-egpd-fbe
19	5B	https://meet.google.com/tbw-ciqq-yux
20	5C	https://meet.google.com/pks-sfua-nic
21	5D	https://meet.google.com/dya-isvh-bpe
22	5E	https://meet.google.com/xgm-ciix-ypw
23	6A	https://meet.google.com/izb-kaoo-ecd
24	6B	https://meet.google.com/ysm-feih-omi
25	6C	https://meet.google.com/iei-dmde-whz
26	6D	https://meet.google.com/ska-wwdd-ydx
27	6E	https://meet.google.com/izp-vytg-mhq

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

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

An opening talk for ICRAIE2021 was delivered by Prof. Zuhaina Zakaria from IEEE Malaysia Section and was formerly the chair of the IEEE Malaysia Section from 2015 -2016. She was also the founder for IEEE Malaysia Section-Women in 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 University Kebangsaan Malaysia (UKM) and received Ph.D. in Computer Science from U[illegible]

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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").

PROGRAM OUTLINE:

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

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)				
	Room 1A	**Room 1B**	**Room 1C**	**Room 1D**	**Room 1E**
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)				
	Room 2A	**Room 2B**	**Room 2C**	**Room 2D**	**Room 2E**
05:00 pm	**End of 1st Day**				

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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

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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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:

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

- **Assoc. Prof. Dr. Maria Ganzha:** Warsaw University of Technology (Warsaw, Poland) (Topic: Introduction to Reinforcement Learning)

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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)

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PLENARY TALK SPEAKERS:

- **Professor Dr. Zuhaina Zakaria:** IEEE Power and Energy Society, Malaysia
  (Topic: Big Data and AI for Smarter Electrical Power Systems)
- **Professor Dr. Azlan Mohd Zain:** Director, UTM Big Data Centre, University Teknologi Malaysia (Topic: Big Data Visualisation - Challenges and Tools)

- **Dr. Wieslaw Pawlowski:** Department of Mathematics, Physics, and Informatics, University of Gdansk (Topic: Semantic Interoperability for IoT)

- **Dr. Afnizanfaizal Abdullah:** Technology Specialist in AI, Big Data & Cloud Computing, Synapse Innovation Sdn. Bhd. (Topic: Artificial Intelligence and Data Science for Innovation Product Development)

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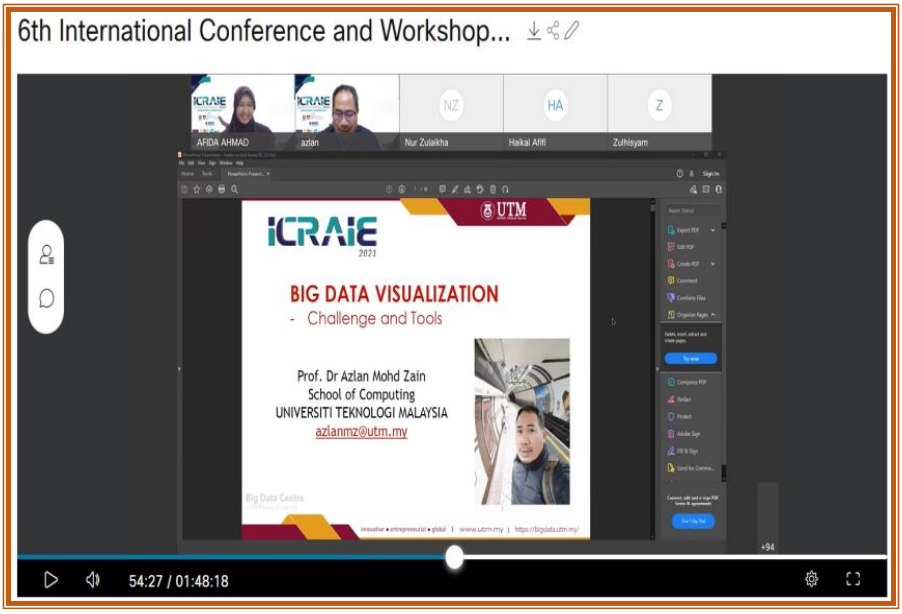
GLIMPSES OF PRESENTATIONS



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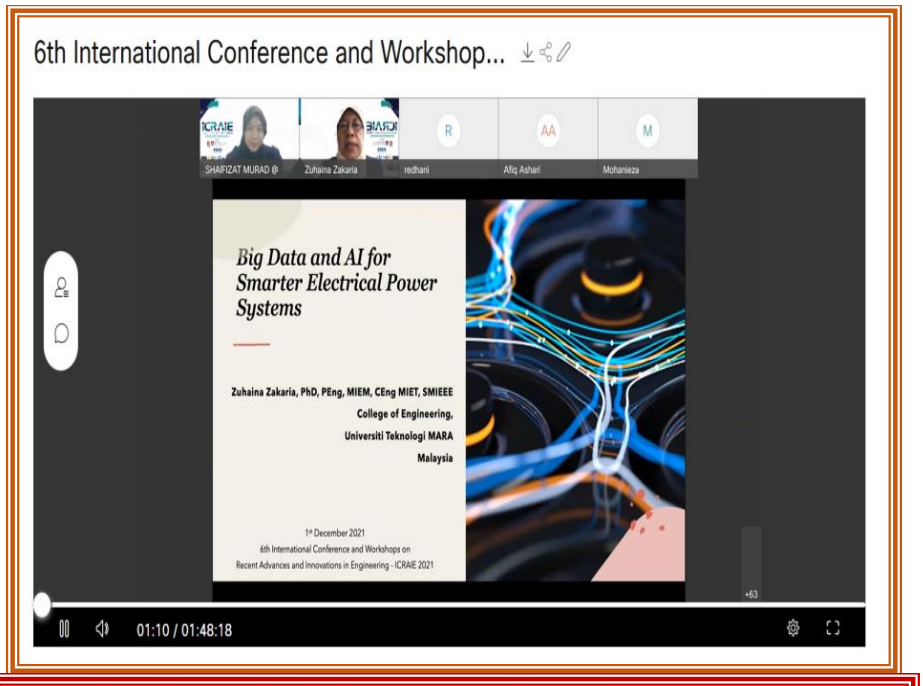

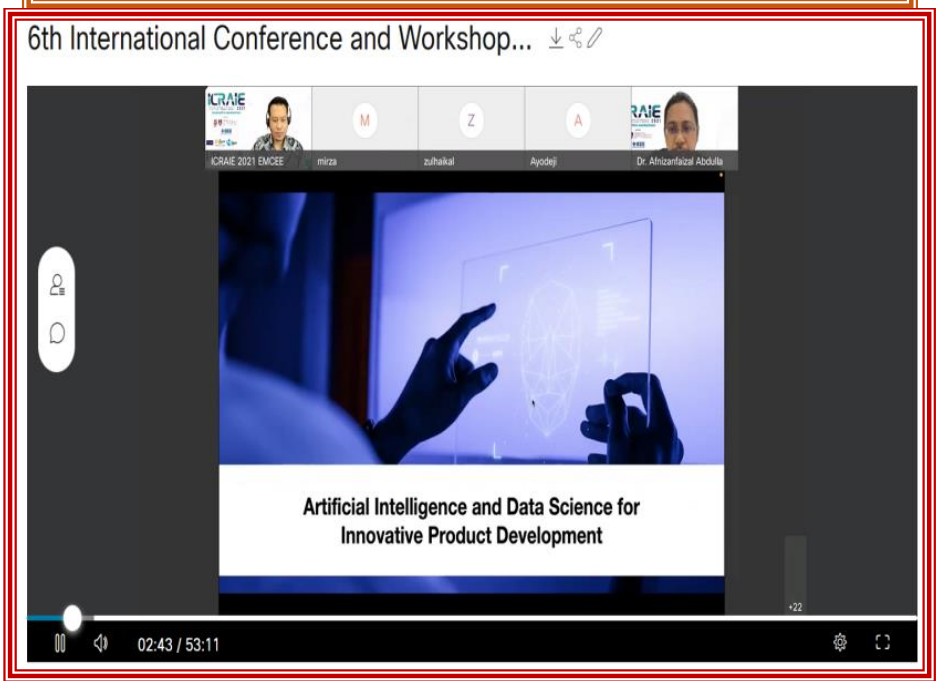

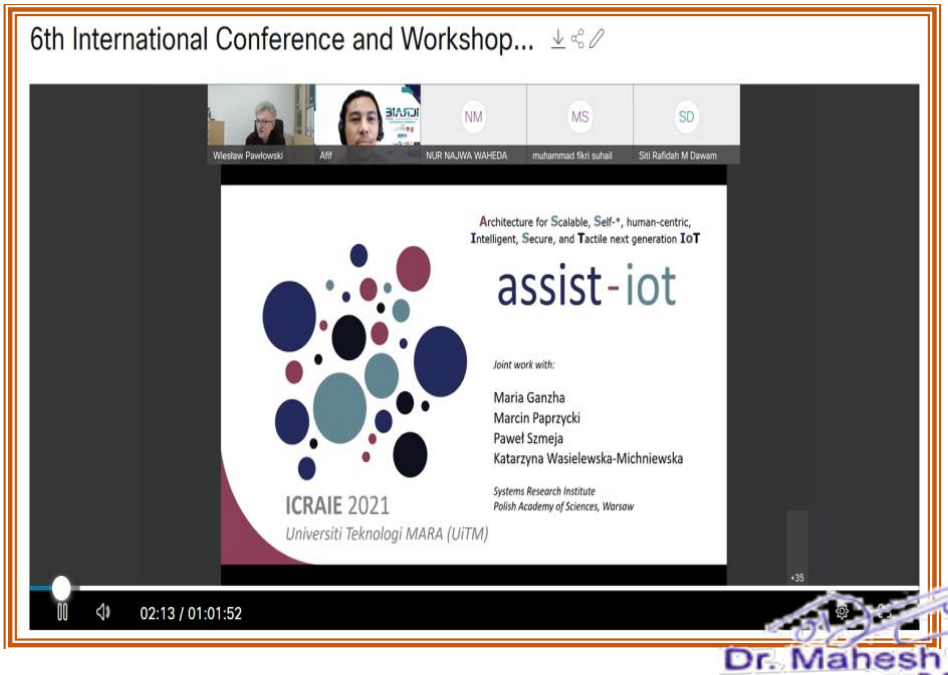

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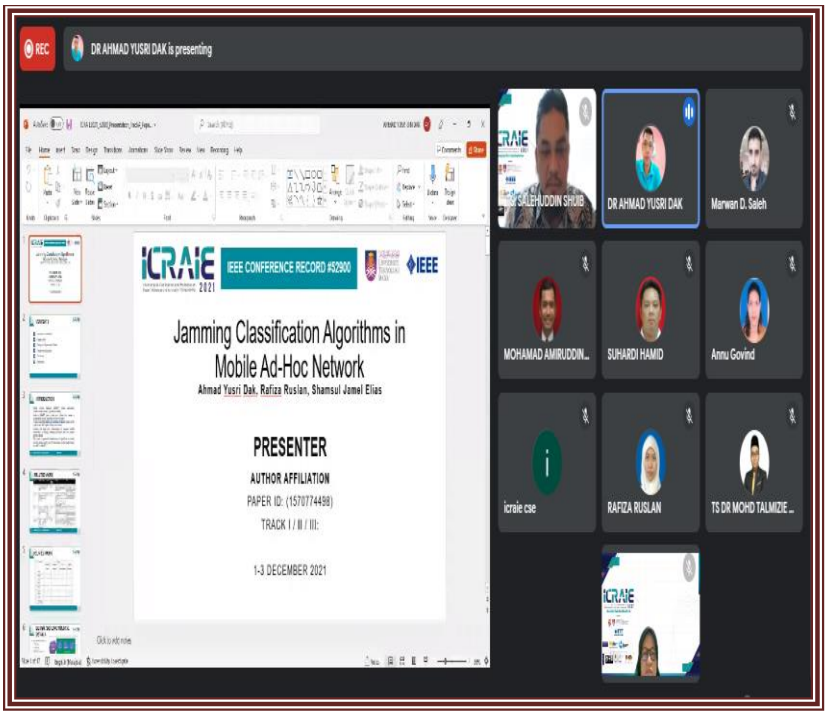

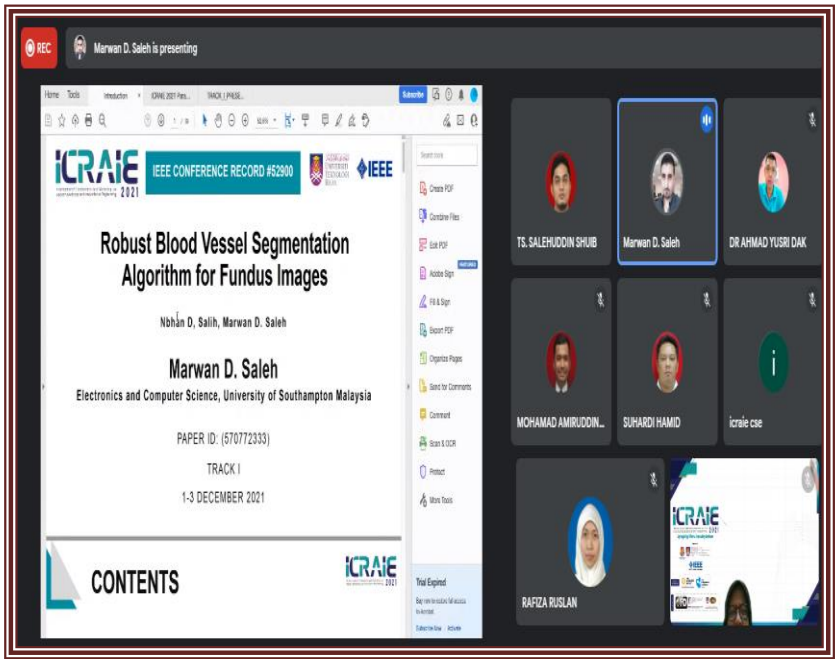

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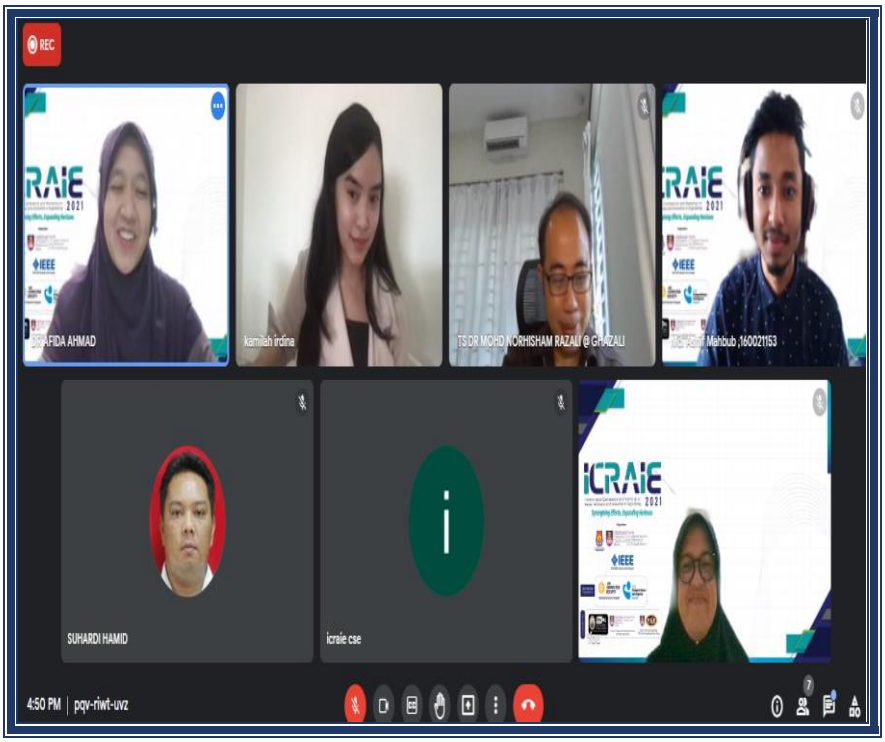

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Group Photograph

VALEDICTORY SESSION:

Host Institute

Supporters

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

Technical & Financial Sponsor

Supporters

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. Noorativati 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 Noorativati 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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SYNERGISING EFFORTS, EXPANDING HORIZONS

(IEEE Conference Record #52900)

1 - 3 December 2021

Cawangan Kedah Kampus Sungai Petani

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

Faculty of Computer and Mathematical Sciences, UiTM Perlis Branch, Perlis

Faculty of Electrical Engineering, UiTM Pulau Pinang Branch, Pulau Pinang

IEEE COMPUTER SOCIETY Poland Section Chapter

IEEE IE/IA Malaysia Joint Chapter

Poornima College of Engineering Jaipur Rajasthan, India

LIST OF
ATTENDEES

NO.	PAPER ID	AUTHORS	PAPER TITLE	ATTENDEE
1	1570725489	***Ahmad Yusri Dak***, Rafiza Ruslan, ShamsulJamel Elis *Universiti Teknologi MARA, Perlis Branch,Malaysia*	Jamming Classification Algorithms in Mobile Ad-HocNetwork	***Ahmad Yusri Dak***
2	1570737110	***Mohd Fakhri Mat Saad***, Ari WibisonoListyo Nugro, Rajermani Thinakaran, Mohammad Baijed *INTI International University, Malaysia*	A Review of Artificial Intelligence Based Platform in HumanResource Recruitment Process	***Mohd Fakhri Mat Saad***
3	1570740184	***Haikal Afifi Ahmad Shaberi***, Ahmad AsriAbd Samat, Abdullah Nasif Afifi Bin Abdullah, Saodah Omar, Abdul Malek Saidina Omar *Universiti Teknologi MARA, PenangBranch,*	Verilog HDL Implementation of Single-Phase Inverter forUninterruptible Power Supply (UPS)	***Haikal Afifi Ahmad Shaberi***

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		Malaysia		
4	1570740190	Muhammad Naqiuddin Mansor, ***AhmadAsri Abd Samat***, Aimi Idzwan Tajudin,	Self Tuning of PI Controller for Speed Control of DC Motorby Using Fuzzy Logic	***Ahmad Asri Abd Samat***
		Saiful Firdaus Abd Shukor, KamarualazharDaud *Universiti Teknologi MARA, PenangBranch, Malaysia*		
5	1570740554	***Bryna Yii Ngieng***, Nabihah Ahmad *Universiti Tun Hussein Onn Malaysia,Malaysia*	Development of Compact Automated Home SystemController Using ASIC Design Flow	***Bryna Yii Ngieng***
6	1570741461	***Aliza Abdul Latif***, Zaihisma Che Cob, Sulfeeza Mohd Drus, Rina Md Anwar,Husni Mohd Radzi *Universiti Tenaga Nasional, Malaysia*	Understanding Depression Detection Using Social Media	***Aliza Abdul Latif***
7	1570742112	***Saodah Omar***, Muhammad Hafizal NaimAbd Razak, Ahmad Asri Abd Samat, Samihah Abdullah, Kamarulazhar Daud *Universiti Teknologi MARA, PenangBranch, Malaysia*	Analysing the Impact of Distribution Generation forDistribution System	***Saodah Omar***

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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 ResolutionApplications in SAR ADCs	***Matthew Khoo***
9	1570745382	***Alya Geogiana Buja***, Maheran Katan, Nasreen Miza Nasrijal, Sharifah FaigahSyed Alwi, Tan Gek Siang Universiti Teknologi MARA, MelakaBranch, Malaysia	Into the Look: Security Issues, Crypto-Hygiene, and Future Direction of Blockchain and Cryptocurrency for Beginners inMalaysia	***Alya Geogiana Buja***
10	1570745805	Mohammad Amirul Adika, ***Aimi Idzwan Tajudin***, Ahmad Asri Abd Samat, Saiful Firdaus Abd Shukor, Kamarulazhar Daud	Design an Optimal PI Controller Using Artificial Bee ColonyAlgorithm for Buck Converter	***Aimi Idzwan Tajudin***
		Universiti Teknologi MARA, PenangBranch, Malaysia		
11	1570747851	***Intan Rahayu Ibrahim***, Mohd Najib MohdHussain, Ahmad Asri Abd Samat, Emelia Noorsal, Ahmad Maliki Omar *Universiti Teknologi MARA, PenangBranch, Malaysia*	Modified Hybrid Optimization of Selective HarmonicElimination Technique for 5-Level H-Bridge Inverter	***Intan Rahayu Ibrahim***
12	1570748504	***Nur Ameerah Abdul Halim***, Ajune WanisIsmail *Universiti Teknologi Malaysia, Malaysia*	Raycasting Method Using Hand Gesture for Target Selectionon the Occluded Object in Handheld Augmented Reality	***Nur Ameerah Abdul Halim***

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13	1570752292	***Mustafa Zuhaer Nayef***, MuhammadImran Ahmad, Said Amirul Anwar *Universiti Malaysia Perlis, Malaysia*	Face Recognition Based on Fusion of Multiple Masks LocalFeature Sets Using Wavelet Transform	***Mustafa Zuhaer Nayef***
14	1570756633	Nurliyana Abd Mutalib, Aminurrashid Noordin, Nadzrie Mohamood, Mohd Syafiq Mispan, ***Norlezah Hashim***, EliyanaRuslan, Dayanasari Abdul Hadi, Shamsul Fakhar Abd Gani, Madiha Zahari, Mohd Farriz Fahar, Lai Len Fatt, Hau Yong Kyan,Wang Choon Seang *Universiti Teknikal Malaysia Melaka,Malaysia*	Design and Implementation of Graphical User Interface forInterface Board Component Testing	***Norlezah Hashim***
15	1570757331	***Megat Muazzam***, Zuraini Zainol, MohdHazali Mohamed Halip *Universiti Teknologi MARA, Malaysia*	Mitigating Malware Threats at Small Medium Enterprise(SME) Organisation: A Review and Framework	***Megat Muazzam***
16	1570757611	***Syahrul Nizam Samsudin***, Bulan Abdullah,Noriah Yusoff *Universiti Teknologi MARA, Malaysia*	Big Data Model of Customer Satisfaction and Service Experience (CSSE) for Automotive Aftersales Services	***Syahrul Nizam Samsudin***
17	1570758163	***Hashiroh Hussain***, Norshuhada Shiratuddin *Institute Teacher Education (IPG) Darulaman Campus, Malaysia*	Enhancing Compellingness of Digital StorytellingApplications With Digital Tools	***Hashiroh Hussain***

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18	1570758855	***Saffa Raihan Zainal Abidin***, Siti FadzilahMat Noor, Noraidah Sahari@Ashaari, Nurul Husna Mahadzir, Abdul Halim Ali *Universiti Teknologi MARA, Kedah Branch,Malaysia*	Preliminary Validation of Serious Game Model ElementsCompatible With Brain-Based Learning Using Delphi Technique	***Saffa Raihan Zainal Abidin***
19	1570758864	***Mohammad Haziq Ishak***; Mohd Syafiq Mispan, Yan Chiew Wong, Muhammad Raihaan Kamaruddin, Mikhail Korobkov *Universiti Teknikal Malaysia Melaka, Malaysia*	FPGA-Based Obfuscated Delay PUF for SecurityEnhancement Against ML-Attack	***Mohammad Haziq Ishak***
20	1570758870	***Tajul Rosli Razak***, Nazifa Adila KhairolFaizi, Mohammad Hafiz Ismail, ShukorSanim Mohd Fauzi, Ray Adderley JM Gining *Universiti Teknologi MARA, Perlis Branch*	Towards Capturing Mango Grading From Human Experts - AComprehensive User Study	***Tajul Rosli Razak***,
21	1570759609	***Kamilah Irdina Mohd Fadilah***, Angela Siew Hoong Lee, Zuraini Zainol, Mansoor Ebrahim *Sunway University, Malaysia*	Covid-19 Effect on Undergraduate Computing Students'Performance at Higher Education: Pilot Study	***Kamilah Irdina MohdFadilah***
22	1570762644	***Zainal Hisham Che Soh***, Liyana Balqis Mohd Zamri, Siti Noraini Sulaiman, Syahrul Afzal Che Abdullah, Saiful Zaimy Yahaya and Mohammad Nizam Ibrahim *Universiti Teknologi MARA, Malaysia*	Cold Chain Management System via Low Power Wide AreaNetwork and IoT	***Zainal Hisham Che Soh***

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24	1570763212	Anthony Roston Anak Tarip, ***Kamarulazhar Daud***, Ahmad Puad Ismail, Aimi Idzwan Tajudin, Saodah Omar, Mohd Najib Mohd Hussain *Universiti Teknologi MARA, Penang Branch, Malaysia*	Multilayer Perceptron Neural Network Approach forVoltage Sags Detection and Classification	***Kamarulazhar Daud***
25	1570763592	***Syahirah Azizan, Rozita Ismail***, AslinaBaharum, Nurul Hidayah Mat Zain Universiti Tenaga Nasional, Malaysia	Exploring the Factors That Influence the Success of Digitalization in an Organization's IT Department	***Syahirah Azizan,Rozita Ismail***
26	1570763633	***Anis Amilah Shari***, Shafaf Ibrahim, Imran Mohammad Sofi, Mohd Rahmat Mohd Noordin, Asma Shazwani Shari, Muhammad Faqih Mohd Fadzil *Universiti Teknologi MARA, Melaka Branch, Malaysia*	The Usability of Mobile Application for Interior Design viaAugmented Reality	***Anis Amilah Shari***
27	1570764216	***Siti Solehah Md Ramli***, Nur Diana Shahira Rosli, Nurul Huda Ishak, Nur Fadhilah Jamaludin, Abdul Malek Saidina Omar, Nur Darina Ahmad *Universiti Teknologi MARA, Penang Branch, Malaysia*	Development of Apps Software for Designing High VoltageAC Substation Grounding System With Different Shapes ofGrid With or Without Rods	***Siti Solehah Md Ramli***

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28	1570764300	Zainab Othman, Nur Nabilah Abu Mansor, Nur Farhani Azmi, Nurul Hidayah Mat Zain,	Snake Species Identification Using Digital Image Processing	***Khairul Adilah Ahmad***
		Khyrina Airin Fariza Abu Samah, Ismassabah Ismai, ***Khairul Adilah Ahmad*** *Universiti Teknologi MARA, Kedah Branch,Malaysia*		
29	1570764355	***Zainal Hisham Che Soh***, Mohammad Afwan Bin Mohd Daud, Mohd Hanapiah Abdullah, Muhamad Syazwan Mohamad Sarudin, Rosheila Darus, Kamarulazhar Daud *Universiti Teknologi MARA, Malaysia*	Smart Cigarettes Smoke Detection System and Alert via IoTCloud	***Zainal Hisham Che Soh***
30	1570765635	*Norizan Mat Diah, Mohd Lajim Mohd Jahim,* ***Noor Aini Mohd Roslan****, ZaidahIbrahim, Azizi Abdullah* *Universiti Teknologi MARA, Malaysia*	Development of Mobile Application for Plant Disease Recognition Using Convolutional Neural Network Method	***Noor Aini Mohd Roslan***
31	1570765696	***Mohamad Amiruddin Mohamad***, Mohd Talmizie Amron, Nur Hidayah Md Noh *Universiti Teknologi MARA, TerangganuBranch, Malaysia*	Assessing the Acceptance of E-Learning via TechnologyAcceptance Model (TAM)	***Mohamad Amiruddin Mohamad***
32	1570766217	***Mohd Najib Mohd Salleh***, Kashif HussainTalpur, Syahizul Amri Dzulkifli *Universiti Tun Hussein Onn Malalaysia,Malaysia*	Optimising Margin in Weighted Support Vector Machinesfor Flood Problem	***Mohd Najib Mohd Salleh***

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34	1570766387	***Saifuddin Mohd,*** Puteri Nor Ellyza Nohuddin Malaysian Administrative Modernisation and Management *Planning Unit (MAMPU), Malaysia*	A Framework of Procurement Analytics for Fraud CoalitionPrediction in Malaysia	***Saifuddin Mohd***
35	1570766660	***Hawa Mohd Ekhsan***, Mohamad Arif Asraf Zainudin, Jiwa Noris Hamid *Universiti Teknologi MARA, Perlis Branch,Malaysia*	Mobile App for Wallet Tracking Using GPS Tracker	***Hawa Mohd Ekhsan***
36	1570766732	***Farah Aiman Ahmad Shahrien***, ZunairahHaji Murat, Ros Shilawani S. Abdul Kadir *Universiti Teknologi MARA, Malaysia*	Preliminary Study: The Electromagnetics Radiation (EMR)From Epipremnum Aureum Using Frequency Detector	***Farah Aiman AhmadShahrien***
37	1570766909	***Fairuz Shohaimay***, Eddie Shahril Ismail Universiti Kebangsaan Malaysia, Malaysia	Efficient Password Mutual Authentication Scheme WithSession Key Agreement Using Smart Card	***Fairuz Shohaimay***
38	1570767046	***Iqbal Haziq Jamal***, Che Ani Adi Izhar, A.S.Fauzilan, M.I.F Maruzuki, Z. Hussain, M.F.A. Rahman *Universiti Teknologi MARA, Penang Branch, Malaysia*	Systematic Literature Review: Human Gait Cycle ModelUsing Image-Temporal Feature	***Iqbal Haziq Jamal***

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40	1570767349	Azlan Bin Abdul Aziz, Intan Nur Hafawati Bt Adam, Jamaluddin Bin Jasmis, Shamsul Jamel Bin Elias, ***Shaifizat Bt Mansor*** *Universiti Teknologi MARA, Kedah Branch,Malaysia*	N-Gain and System Usability Scale Analysis on Game BasedLearning for Adult Learners	***Shaifizat Bt Mansor***
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42	1570767799	Mirza Muntasir Nishat, ***Md. Ashif Mahbub***, Ashik Ahmed, Md Abdullah AlMamun *Islamic University of Technology (IUT),Bangladesh*	Performance Assessment of Machine Learning Classifiers inDetecting Psychological Impact of Postgraduate Students Due to Covid-19	***Md. Ashif Mahbub***
43	1570768255	***Fatin Fatihatul Ashyikin Kamaruzaman***,Che Ani Adi Izhar, A.S. Fauzilan, Samsul Setumin, Z. Hussain, M.F. Abdullah *Universiti Teknologi MARA, Penang Branch, Malaysia*	Systematic Literature Review: Recognition of Human GaitCycle Using Machine Learning Approach	***Fatin Fatihatul Ashyikin Kamaruzaman***

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45	1570768521	***Pranjal Jog***, Suwarna Shete, R. K.Kumawat, D.K.Palwalia *Career Point University, Kota Rajasthan , India*	Electric Vehicle Charging Station Infrastructure: A Review	***Pranjal Jog***
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47	1570769315	***Ranjit Kumar Bindal***, Prateek Shrivastava *Chandigarh University Gharuan, India*	Arithmetic Distance Relay Computation And UtilizationUsing Single Circuit Wire for 400 KV Bus Substations	***Ranjit Kumar Bindal***
48	1570769374	***Salehuddin Abd Latif***, Uswah Khairuddin, Anis Salwa Mohd Khairuddin *Universiti Teknologi Malaysia, Malaysia*	Development of Machine Vision System for Riverine DebrisCounting	***Salehuddin Abd Latif***
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50	1570770027	***Mohd Norhisham Razali***, Ana Salwa Shafie, Rozita Hanapi *Universiti Teknologi MARA Sarawak Branch, Malaysia*	Performance Evaluation of Masked Face Recognition UsingDeep Learning for Covid-19 Standard of Procedure (SOP) Compliance Monitoring	***Mohd Norhisham Razali***

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52	1570771528	***Bhuvnesh Rathor***, Anamika Kumari, AjitSingh Rajawat, Vishvendra Singh Punia,Gaurav Jain, Vandana Agrawal *Rajasthan Technical University Kota, India*	Robust Control Techniques for Four-Area System With DFIGSystem	***Bhuvnesh Rathor***
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56	1570771908	***Virendra Sharma***, Jayesh Verma, Pravin Sonwane, Harsh Sharma, Aditya Gupta, Prabhat Kumar *Arya College of Engineering & IT, India*	Power Management and Voltage Regulation of Self-Governed Hybrid RE-Source Microgrid System for Distribution Load	***Virendra Sharma***

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60	1570772459		A Double-Ended Scheme for Fault Detection and Phase-Type Classification in Fixed Series Compensated Transmission Line During Distorted Signals	***Gaurav Kapoor***
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62	1570772826	***Durga R***, Poovammal E *SRM Institute of Science and Technology, India*	Federated Learning Model for Healthchain System	***Durga R***

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65	1570773633	***Ahmed Samir Badawi,*** Mohamed Ouda, Alhareth Zyoud, Siti Hajar Yusoff *International Islamic University Malaysia,Malaysia*	Maximum Power Point Tracking Controller Technique UsingPermit Magnet Synchronous Generator	***Ahmed Samir Badawi***
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		Kolej Komuniti Selandar,Malaysia		
75	1570774786	Windhya Rankothge, Narmada Gamage, ***Ahamed Suhail***, Tharani Ariyawansa, Haritha Dewwiman, Bhanu Senevirathne *Sri Lanka Institute of Information Technology (SLIIT), Sri Lanka*	A Deep Learning Model Optimized With Genetic Algorithmsfor Resource Allocation of Virtualized Network Functions	***Ahamed Suhail***

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80	1570775493	***Aznor Hanah***, Rohani S Mohamed Farook,Mohamad Rizal Abdul Rejab, Mohd Fairuz	Cross-Layer Optimization for VANET City Scenario UsingTaguchi Mechanism	***Aznor Hanah***
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85	1570776167	***Mohd Ali Mat Nong,*** Juraina Md Yusof, Rosiah Osman, Roslina Mohd Sidek, SuzilaSabil *Universiti Putra Malaysia, Malaysia*	Motorcycle Image Evaluation by Contrast StretchingMethod	***Mohd Ali Mat Nong***

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87	1570778293	Setyawan P. Sakti, ***Heru Nurwarsito***, DidikSuprayogo, Cahyo Prayogo, Awang Satya Kusuma *University of Brawijaya, Indonesia*	Automation of CNC Machinery in Improving Quality andProduction Speed of Agricultural Product Processing Machinery Components	***Heru Nurwarsito***
88	1570778696	Md Yushalify Misro, ***Afida Ahmad*** *Universiti Teknologi MARA, Kedah Branch,Malaysia*	Preserving Monotonicity of Ball Curve andIt's Curvature Profile	***Afida Ahmad***
89	1570778728	***Nurul Husna Mahadzir***, Ahmad Afif Ahmarofi, Siti Nurbaya Ismail; Nor HafizahAbdul Razak, Jasmin Ilyani Ahmad, Afida Ahmad *Universiti Teknologi MARA, Kedah Branch,Malaysia*	EDU_INSIGHTS: The Analytic Tools to Assess Students' Satisfaction Level in Open and Distance Learning (ODL)	***Nurul Husna Mahadzir***
90	1570779424	***Mazura Mat Din***, Noor Rasidah Ali, TanizaTajuddin, Siti Rafidah Muhamat Dawam, Shaifizat Mansor *Universiti Teknologi MARA, Kedah Branch,Malaysia*	Mobile Application for Malaysian Diabetes DietaryMonitoring System (My-DDMS)	***Mazura Mat Din***

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91	1570779481	***Ahmad Afif Ahmarofi***, Zetty Ain Kamaruzzaman, Hamirahanim Abdul Rahman, Khairil Azman Masri, NadirahAbdul Rahim, S.Sarifah Radiah Shariff, Zanariah Idrus, Siti Nurbaya Ismail	Development of A Computer Simulation on Road PricingStrategy to Reduce Congestion and Carbon Dioxide Emission: A System Dynamics Approach	***Ahmad Afif Ahmarofi***
		Universiti Teknologi MARA, Kedah Branch,Malaysia		
Attendees as Track Chairs, Speakers, Session Chair, Faculty and Students from Organizing Institutes				
		Name	***Affiliataion***	***Designation***
97		HARYANI HARON	PROFESSOR TS DR	Dean, Faculty of Computer and Mathematical Sciences, Universiti Teknologi MARA (UiTM)
98		MOHAMAD ABDULLAH HEMDI	PROF. DR.	Rector of UiTM Kedah
99		MAHESH BUNDELE	DR.	Principal & Director of Poornima College of Engineering
100		RAHUL SINGHI	AR	Director of Poornima Group
101		VISHWANATH SINHA	DR	FIEEE, Chairperson
102		SALMIAH KASOLANG	PROFESSOR TS DR	Rector of UiTM Penang
103		SHUKOR SANIM MOHD FAUZI	PROFESSOR TS DR	Rector of UiTM Perlis

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104		NOORITAWATI MD TAHIR	PROFESSOR DR	IEEE Industrial Electronic /Industry Applications Malaysia Joint Chapter
105		AZHARI HASHIM	DR	Deputy Rector of Research& Industrial Linkages Division, UiTM Kedah
106		KAMARUDIN OTHMAN	DR	Deputy Rector of AcademicDivision, UiTM Kedah
107		SITI RAFIDAH MUHAMAT DAWAM	HEAD OF FACULTY	Faculty of Computer andMathematical Sciences, UiTM Kedah Branch
108		TANIZA TAJUDDIN	DR	Chair 1 ICRAIE 2021
109		SITI SHAFRAH SHAHAWAI	FACULTY MEMBER	UiTM Kedah
110		‘AMIRAH HAZWANI ABDUL RAHIM	FACULTY MEMBER	UiTM Kedah
111		AB RAZAK MANSOR	FACULTY MEMBER	UiTM Kedah
112		AFIDA AHMAD	DR	Faculty Member UiTMKedah
113		AHMAD AFIF AHMAROFI	DR	Faculty Member UiTMKedah
114		ANIS MARDIANA AHMAD	FACULTY MEMBER	UiTM Kedah
115		ASMAHANI NAYAN	FACULTY MEMBER	UiTM Kedah
116		FAZILLAH BINTI BOSLI	FACULTY MEMBER	UiTM Kedah

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118		JASMIN ILYANI BINTI AHMAD	FACULTY MEMBER	UiTM Kedah
119		KAMARUL ARIFFIN MANSOR	FACULTY MEMBER	UiTM Kedah
120		KARTINI KASIM	FACULTY MEMBER	UiTM Kedah
121		KHAIRUL ADILAH AHMAD	DR	Faculty Member UiTMKedah
122		MAZURA MAT DIN	DR	Faculty Member UiTMKedah
123		NOOR HAFIZAH ZAINAL AZNAM	FACULTY MEMBER	UiTM Kedah
124		NOOR HASNITA ABDUL TALIB	FACULTY MEMBER	UiTM Kedah
125		NOOR RASIDAH ALI	FACULTY MEMBER	UiTM Kedah
126		NOR ATHIRAH MD ZIN	DR	Faculty Member UiTMKedah
127		NOR HAFIZAH ABDUL RAZAK	FACULTY MEMBER	UiTM Kedah
128		NORA BAIZURA BINTI MOHD ISA	FACULTY MEMBER	UiTM Kedah
129		NORASHIKIN NASARUDDIN	FACULTY MEMBER	UiTM Kedah
130		NORIN RAHAYU BINTI SHAMSUDDIN	FACULTY MEMBER	UiTM Kedah
131		NORLIANA MD NAJIB	DR	Faculty Member UiTMKedah
132		NURAZLINA ABDUL RASHID	FACULTY MEMBER	UiTM Kedah

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134		ROSIDAH AHMAD	DR	Faculty Member UiTMKedah
135		SALEHUDDIN SHUIB	FACULTY MEMBER	UiTM Kedah
136		SHAHIDA FARHAN ZAKARIA	FACULTY MEMBER	UiTM Kedah
137		SHAIFIZAT MANSOR	FACULTY MEMBER	UiTM Kedah
138		SHAMSUL JAMEL ELIAS	DR	Faculty Member UiTMKedah
139		SITI FAIRUS MOKHTAR	FACULTY MEMBER	UiTM Kedah
140		SITI NUR ALWANI SALLEH	DR	Faculty Member UiTMKedah
141		SITI NURBAYA ISMAIL	FACULTY MEMBER	UiTM Kedah
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143		SUHARDI HAMID	FACULTY MEMBER	UiTM Kedah
144		SYAFIZA SAILA SAMSUDIN	FACULTY MEMBER	UiTM Kedah
145		NUR NAZIFA MD HASANI	FACULTY MEMBER	UiTM Kedah
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150		NUR DARINA AHMAD	DR	Faculty Member UiTMPenang
151		AHMAD ASRI ABD SAMAT	DR	Faculty Member UiTMPenang
152		AIMI IDZWAN TAJUDIN	DR	Faculty Member UiTMPenang
153		MUHAMMAD NABIL FIKRI JAMALUDDIN	DR	Faculty Member UiTM Perlis
154		LATIFAH MOHAMED	DR	Faculty Member UiTM Perlis
155		MOHAMMAD HAFIZ ISMAIL	DR	Faculty Member UiTM Perlis
156		TAJUL ROSLI RAZAK	DR	Faculty Member UiTM Perlis
157		SITI ZULAIHA AHMAD	TS DR	Faculty Member UiTM Perlis
158		AZNOORA OSMAN	DR	Faculty Member UiTM Perlis
159		AINI SYUHADA MD ZAIN	DR	Faculty member, UNIMAPPerlis
160		NUR ADYANI MOHD AFFENDI	DR	Faculty member, UNIMAPPerlis
161		WAN ZUKI AZMAN WAN MUHAMAD	DR	Faculty member, UNIMAPPerlis

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163		ZULKIFLI HUSIN	DR	Faculty member, UNIMAPPerlis
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165		BALKIAH MOKHTAR	DR	Faculty Member UiTM Perlis
166		NORA YANTI CHE JAN	DR	Faculty Member UiTM Perlis
167		NUR FATIHAH FAUZI	DR	Faculty Member UiTM Perlis
168		AZWATI AZMIN	DR	Faculty Member UiTM Perlis

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

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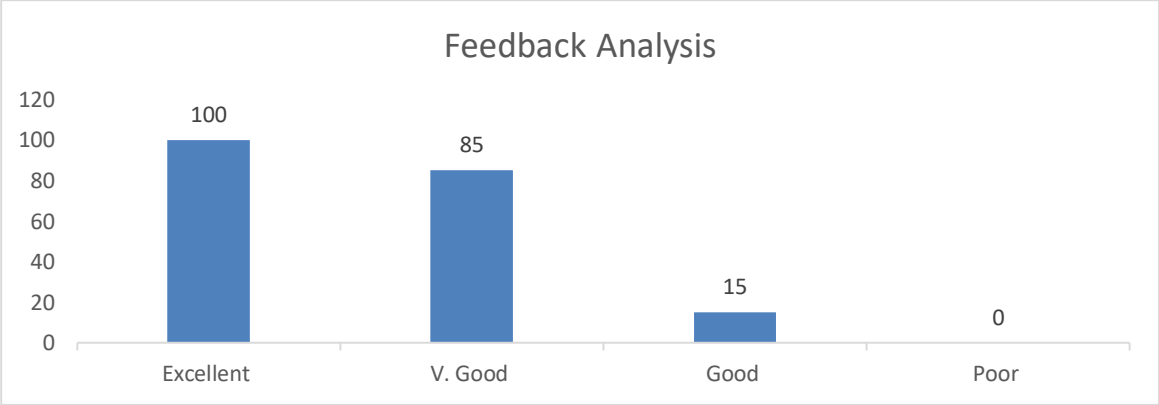
FEEDBACK ANALYSIS:

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	100
		V. Good	85
		Good	15
		Poor	0



SWOT ANALYSIS:

The primary goal of such conferences is to promote research and developmental activities in recent advances in engineering and allied areas. Another goal is to promote scientific information 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.

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Weakness of Conference:

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

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