



2nd International Conference on Innovative Research in Engineering and Technology (ICIRET-22)

Conference Report

Virtual Conference

Organized by
Institute For Engineering Research
and Publication (IFERP)

2nd International Conference on Innovative Research in Engineering and Technology (ICIRET-22) $15^{th}~\&~16^{th}~July~2022-Virtual~Conference$ Past Conference Report

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1. Event Summary

Conference Name : 2nd International Conference on Innovative Research in Engineering and Technology (ICIRET-22)

Date : 15th & 16th July 2022

Conference Theme: Focuses to identify novel developments made in Engineering and Technology with a multidisciplinary approach and rediscover growth that benefits everyone

Mode/Place : Virtual Conference

No of Delegates : 51 Delegates for the conference

1.1 OVERVIEW

2nd International Conference on Innovative Research in Engineering and Technology (ICIRET-22) held on 15th and 16th of July 2022, was to address challenges associated with the effective dispensation of all the latest knowledge being generated in the fields of engineering and technology. With technology progressing at an accelerated pace, young scholars, students, and researchers in the early stages of their career are finding it harder than ever to keep up. This conference aims at helping them get up-to-speed with all the latest advancements.

Participants were offered to interact with industry experts on the recent challenges in scientific research and associated areas. Leading researchers had shared their incredible research findings and tools that they use to achieve better results. With technology progressing at an accelerated pace, young scholars, students and researchers in the early stages of their career are finding it harder than ever to keep up. This conference aims at helping them get up-to-speed with all the latest advancements. This international conference on multidisciplinary research and education is bound to generate several new ideas and experiences. For those looking to spread awareness of their incredible research findings and other work had the chance to present their papers and articles, or even make presentations. The conference will cover topics from diverse disciplines to bestow their innovative schemes for sustainable growth.

1.2 Conference Theme

2nd International Conference on Innovative Research in Engineering and Technology (ICIRET-22) is focuses to identify novel developments made in Engineering and Technology with a multidisciplinary approach and rediscover growth that benefits everyone. Aimed to identify challenges, difficulties faced in adapting and application of new innovations made in respective fields. It is focused to serve as a distinctive union of networking, learning, and in one ensemble, which can catalyst individual's development and same with society and it wanted to be an informative event for all towards universal welfare.

2. ABOUT THE CONFERENCE

With high expectations & responsibilities the 2nd International Conference on Innovative Research in Engineering and Technology (ICIRET-22), held on 15th - 16th July 2022 as virtual. The Current research development and transformation to advanced industrial practices brought necessity to organize this knowledge event. ICIRET 2022 will inspire and welcome innovative ideas, methodologies, research findings and processes in Engineering and Technology.

With research progressing at an accelerated pace, young scholars, students, and researchers in the early stages of their career are finding it harder than ever to keep up. This conference aims at helping them get up-to-speed with all the latest advancements. The idea of the ICIRET 2022 is to build a platform for experts, academicians, technicians, scholars from global universities, industries to converge together and present contemporary research projects that inform & illuminate delegates about the progress being made.

3.CONFERENCE SCOPE

ICIRET topics include, but are not limited to, the following research and development areas/fields.

- Engineering
- Technology

As a result, Keynote, Guest Speaker and Technical Sessions have been prepared in accordance with conference scope to discuss the Challenges, Opportunities and Problems of Application in various fields.

4.INAUGURAL PROGRAMME

The day 1 of the conference started with welcoming all the participants and dignitaries for the conference followed by the proceedings book release and introduction of session chair for the technical sessions.

4.1 Welcoming and Opening Ceremony

Welcoming Keynote Speakers of the 2^{nd} International Conference on Innovative Research in Engineering and Technology (ICIRET-22)

Keynote Speakers



Dr. Geeta R. Bharamagoudar
Professor
Department Of Computer Science &
Engineering,
KLE Institute of Technology,
Karnataka, India



Mr. Kevin Ashford-Rowe
Pro Vice-Chancellor
Digital Learning
Queensland University of Technology,
Brisbane, Australia



Professor Marwan Al-Akaidi Professor Mobile & Wireless Multimedia Comms, Al Rayan Colleges Medina, Saudi Arabia



Justin Dauwels
Associate Professor
Technische Universiteit Delft,
Netherlands



Dr. Sailesh Iyer
Professor And Dean, CSE/IT Department,
Rai School of Engineering, Rai University,
President RU IIC and RU Nodal officer -GSIRF,
Ahmedabad, India.

Followed by welcoming our session chair of 2^{nd} International Conference on Innovative Research in Engineering and Technology (ICIRET-22)

Session chairs



Ts. Dr. Mathivannan Jaganathan
Senior Lecturer
School of Business Management, College of
Business,
Universiti Utara Malaysia.



Dr. Noor Zaman Jhanjhi
Director & Associate Professor
Center for Smart Society 5.0 [CSS5]
Cluster Head – Cyber Security Cluster
Taylor's University, Malaysia



Dr. K. Hemachandran Professor and Program Chair Department of AI and ML, Woxsen University.



Mr.I Putu Tedy Indrayana
Lecturer,
Faculty of Mathematics and Natural
Sciences,
Universitas Udayana,
Bali, Indonesia

4.2 Opening Session _Conference Proceedings.

On behalf of the organizing committee, we released the proceedings book on the conference day.



5.CONFERENCE ORGANIZING COMMITTEE

| Lead Name | Designation | Department | College/Universities Name | Country |
|--------------------------------|--|---|--|---------|
| Dr MAHDI HOSSEINI | Scientific Researcher | Civil Engineering | Nanjing Forestry University | China |
| SHANKAR MOGUTHALA | Assistant Professor | EEE | SIDDHARTHA INSTITUTE OF ENGINEERING & TECHNOLOGY | India |
| Dr Hassan Falah Fakhruldeen | Lecturer | Electrical Engineering Department | Imam Jaafar Al-sadiq University | Iraq |
| Dr Masoud Taghavi | Head of Mechanical Engineering Department | Mechanical Engineering Department | Technical and Vocational University (TVU) of Iran | Iran |

| Thirunavukkarasu Pathmathas | Head of Department | Department of Physics | University of Jaffna | Srilanka |
|------------------------------------|------------------------------------|--|--|-------------|
| Nor Saadah Mohd Yusof | Senior Lecturer | Department of Chemistry | University of Malaya | Malaysia |
| Dr Mohd Khursheed | Associate Professor | Department of Electrical Engineering | Integral University, | India |
| Dr. Sanya Kenaphoom | Associate Professor | Faculty of Political Science and Public Administration | Rajabhat Maha Sarakham University | Thailand |
| Amin Abdellatif El-Meligi | Professor | Chemistry | National research Centre, | Egypt |
| Rajkumar Palaniappan | Assistant Professor | Department of Mechatronics Engineering | University of Technology Bahrain | Bahrain |
| DR. ABDUL MANAF BOHARI | Associate professor | Information System Management | Universiti Utara Malaysia | Malaysia |
| Dr. Mohamad Anuar Kamaruddin | Lecturer | Environmental Technology Division | Universiti Sains Malaysia | Malaysia |
| Assoc.Prof. Chonlatee Photong | Associate Dean | Solar Energy and Energy Resources Research | Mahasarakham University, | Thailand |
| Dr. Sathish Kumar Selvaperumal | Assoc. Professor | Telecommunication Engineering | Asia Pacific University of Technology and Innovation | Malaysia |
| Dr Noor Zaman Jhanjhi | Associate Professor | Innovation & Technology | Taylor's University | Malaysia |
| MUHAMAD RAZUHANAFI MAT YAZID | Associate Professor | Civil Engineering | Universiti Kebangsaan Malaysia | Malaysia |
| Ts. Ir. Dr. King Kuok Kuok | Associate Professor | Computing and Science, | Swinburne University Of Technology | Malaysia |
| PATEL CHINTAN ASHWINKUMAR | Assistant Professor | Electronics and Communication Engineering | Gandhinagar Institute of Technology, | India |
| Razwan mohmed salah najimaldeen | LECTURER | COMPUTER SCIENCE | CIHAN UNIVERSITY | Iraq |
| Mr. Dhaval Sahija | Enterprise Solutions Manager | Softweb Solutions Inc | | USA |
| DR. JULIET O. NIEGA | Chair | Computer Engineering Dept | National University - Laguna | Philippines |
| Dr Ranie Canlas | Vice-President | Research, Extension & Training | DON HONORIO VENTURA STATE UNIVERSITY | Philippines |

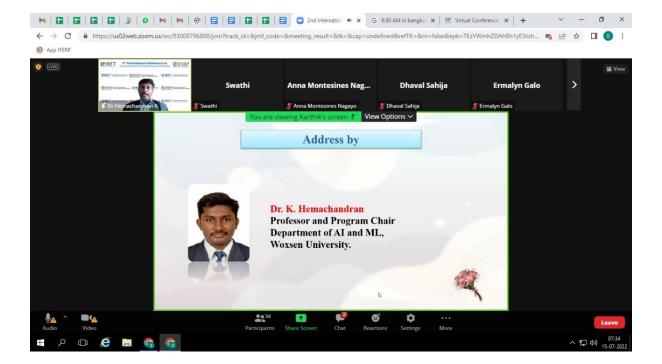
Conference Day - 1

6. Session Chair and Keynote Speeches



Dr. K. HemachandranProfessor and Program Chair
Department of AI and ML,
Woxsen University.

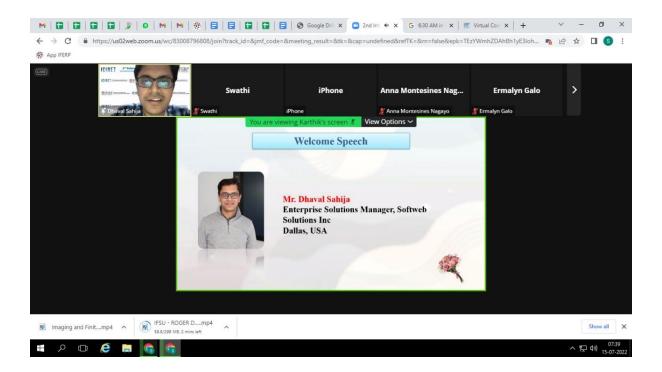
Dr. K. Hemachandran- Professor and Program Chair, Department of AI and ML, Woxsen University to deliver his speech.





Mr. Dhaval Sahija
Enterprise Solutions Manager,
Softweb Solutions Inc,
USA

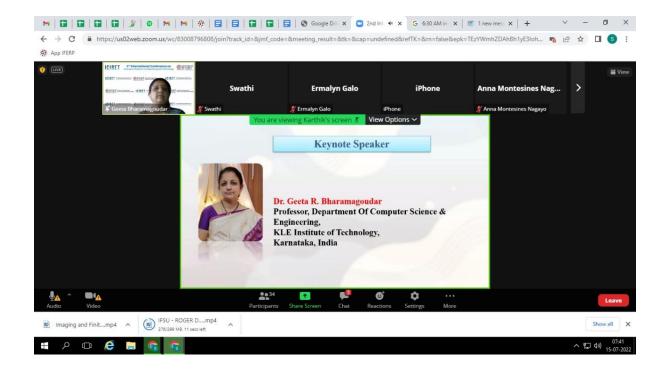
Mr. Dhaval Sahija - Enterprise Solutions Manager, Softweb Solutions Inc, USA to deliver welcome speech.





Dr. Geeta R. Bharamagoudar
Professor,
Department Of Computer Science & Engineering,
KLE Institute of Technology,
Karnataka, India

Dr. Geeta R. Bharamagoudar -, Professor, Department of Computer Science & Engineering, KLE Institute of Technology, Karnataka, India to deliver her keynote speech.

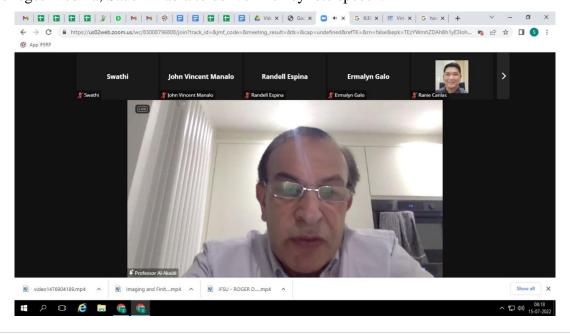




Professor Marwan Al-Akaidi

Professor Mobile & Wireless Multimedia Comms, Al Rayan Colleges Medina, Saudi Arabia.

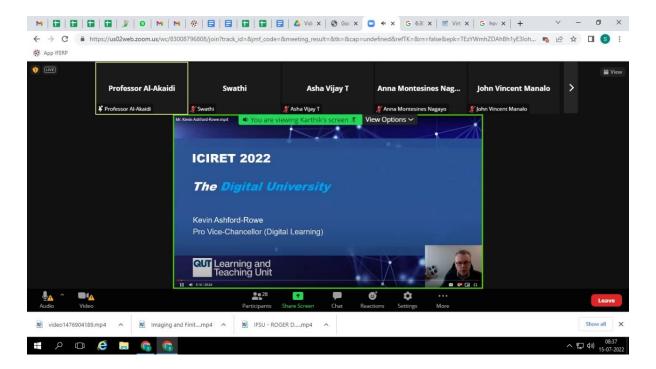
Professor Marwan Al-Akaidi- Professor, Mobile & Wireless Multimedia Comms, Al Rayan Colleges Medina, Saudi Arabia to deliver his keynote speech.





Mr. Kevin Ashford-Rowe
Pro Vice-Chancellor
Digital Learning,
Queensland University of Technology,
Brisbane, Australia

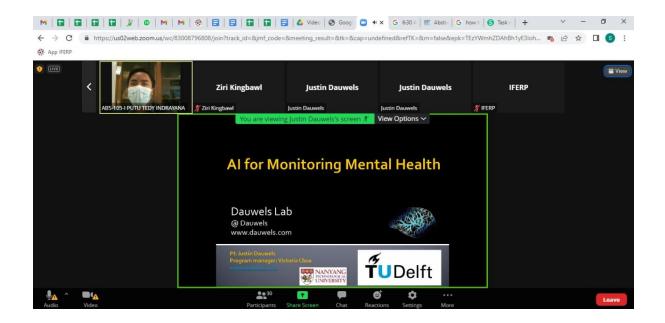
Mr. Kevin Ashford-Rowe- Pro Vice-Chancellor, Digital Learning, Queensland University of Technology, Brisbane, Australia to deliver his keynote speech.





Dr. Justin DauwelsAssociate Professor
Technische Universiteit Delft,
Netherlands

Dr. Justin Dauwels- Associate Professor, Technische Universiteit Delft, Netherlands to deliver his keynote speech.

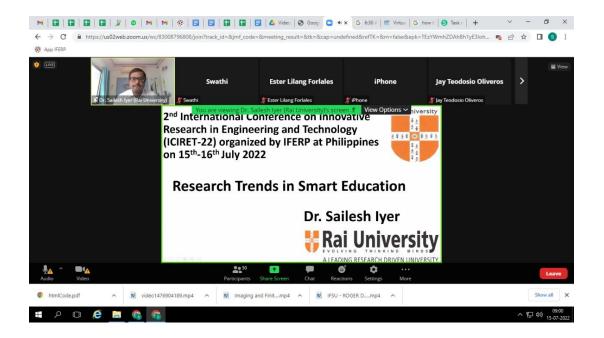




Dr. Sailesh Iyer

Professor And Dean, CSE/IT Department, Rai School of Engineering, Rai University, President RU IIC and RU Nodal officer -GSIRF, Ahmedabad, India.

Dr. Sailesh Iyer- Professor And Dean, CSE/IT Department, Rai School of Engineering, Rai University, President RU IIC and RU Nodal officer -GSIRF, Ahmedabad, India.to deliver his keynote speech.



7.SCIENTIFIC PROGRAM

| Day | Session | Topic |
|-------|-----------------------|--|
| Day 1 | Technical Session I A | Engineering, Technology and other related topics |
| Day 1 | Technical Session I B | Engineering, Technology and other related topics |

7.1 Technical Session I A

- ♣ Energy Audit of a State University in the Philippines Presentation by Jay T. Oliveros
- ♣ Modeling and Simulation of a 48-kW Off-grid Solar PV Power System Using PVSyst Presentation by Randell U. Espina
 - ♣ Analysis of the Impacts of Quality Assurance and Quality Control on Construction Projects using RII method

Presentation by MUHAMMAD MARAFA RIBAH

♣ Migrating data from document-oriented database to graph-oriented database Presentation by Lim Fung Ji

♣ Control and Monitoring Systems of a Smart Hybrid-Powered Integrated Soil-less Farming Facility with a Fuzzy Logic-based Decision Support Module for Crop Planning to Enhance Agricultural Sustainability

Presentation by Analene Montesines Nagayo

♣ Date Fruit Classification Model Using Deep Learning Presentation by Bindu P V

♣ Assessment of selected hill slopes stability Presentation by K Zirsangzeli

♣ Blockchain technology adoption in the context of Saudi Arabia: An empirical analysis for a future outlook

Presentation by Abdullah Basiouni

- ♣ A Methodology for Validating Survey Questionnaires in Marketing Research Presentation by Talal MI Alsaif
 - Frieze Pattern Analysis of the Eastern Cordillera Three Major Ethnic Groups Woven Native Attire

Presentation by ROGER DE GUZMAN CAPUA

♣ Sentiment Analysis of Employee Feedback Data Presentation by Dr. Swathi Y

♣ Critical Review & Analysis Of Eia Report Of Lahore Orange Line Metro Train Project For Working Out The Eia Performance Index Of Project

Presentation by Ms. Zulakha Rasheed

- ♣ Effects of Fertilizer Application Protocols Through Fertigation on the Growth Parameters of Pre-germinated One-eye Cuttings of Sugarcane Varieties Presentation by Ermalyn De Guzman Galo
- ♣ A Survey on 5th Generation Wireless Network Security Presentation by Chaithanya D J
- ♣ Prediction of the Sickle Cell Anaemia disease using Machine Learning Techniques Presentation by Shivangi Shekhar
- ♣ Modelling the Price Forecast for Construction Steel: A Case Study in EPC Company Presentation by Alfa Firdaus
 - ♣ Experimental study of nanoparticles size distribution effect to the Mie scattering intensity

7.2 Technical Session I B

- ♣ Prediction of Parkinson's Disease from Voice Signals Using Machine Learning Presentation by Sreeja S R
 - ♣ Early Stage of COVID-19 Spreading and Simulation Trend using The Spatiotemporal Epidemiologic Modeler (STEM), Case Study in Jakarta

Presentation by Maya Genisa

♣ The Development of Malunggay (Moringa oliefera) Molo Wrapper: Techno-Guide for Instruction, Community Extension, and Production

Presentation by John Vincent I. Manalo

♣ Imaging And Finite Element Analysis Application on Biomechanical Evaluation of Bone Fracture Case

Presentation by Maya Genisa

- ♣ Estimating the impact of tourism education on resource valorization Presentation by Gaby Khoury
- ♣ Predicting Faculty Research Productivity using J48 Decision Tree Algorithm Presentation by Ranie B. Canlas
 - ♣ Estimating the impact of the effective resource valorization on enhancing tourism activities in Lebanon

Presentation by Georges Bellos

♣ Comparison between the dissolution profiles of two prednisone tablet commercially available in Algeria.

Presentation by Ouarda Benaziz

♣ Identifying Segmental Congestion Index Along The Traffic Flow Of Rizal Avenue In City Of Manila Using Travel Time Modeling

Presentation by Patrick Louie Jay Federizo

- ♣ Blockchain Applications in Fisheries: A Review Presentation by Asha Vijay T
 - ♣ Research of layer thickness and selected thermoplastic materials and their influence on the surface roughness in the process of Fused Deposition Modeling technology

Presentation by Jan Milde

♣ A Brief Survey on Detection and Tracking in Non-Overlapping Multi-Camera Network and Proposal for Future Direction

Presentation by Anandu M Dharan

♣ Designing a Framework for CareAide+: A care need hub for Persons with Disability and Senior Citizens

Presentation by Guillermo V. Red, Jr

- ♣ A Novel Sensor with High Sensitivity Hydrophone for Acoustic Sound wave Presentation by Mallikarjun C Kallatti
 - ♣ Distributed Generation Placement Using Voltage Stability Index and Optimal Sizing Using Adaptive Particle Swarm Optimization

Presentation by Namilakonda Srilatha

♣ Predictive Hybridization Model integrating Modified Genetic Algorithm (MGA) and C4.5

Presentation by James Cloyd M Bustillo

♣ Stakeholders' Assessment on Offering Master of Engineering Programs in Romblon State University: Feasibility Study

Presentation by Ester Forlales

7.3 Highlights Day1 session

7.3.1 Most Enjoyed Presentations



Title: Experimental study of nanoparticles size distribution effect

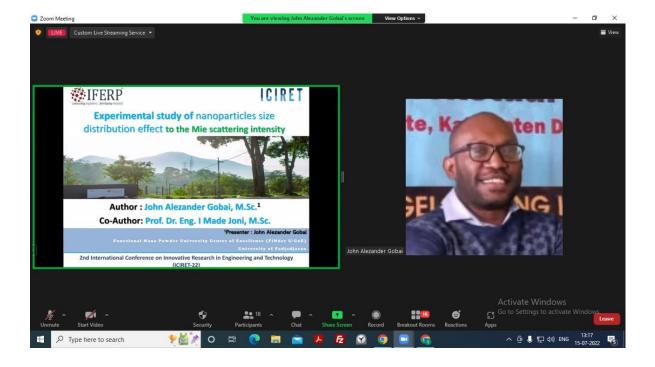
to the Mie scattering intensity **Name:** John Alezander Gobai

University/Organization: The University of Padjadjaran

Abstract:

Mie scattering is a phenomenon that happens when an electromagnetic wave (light) scatterred

by the particle which the size of the particle comparable with the incident light wavelength. This non destructive scattering technique is recently used in various study as an alternative for measuring particle size distribution in contrast with other methods which has certain limits (i.e. Destructive to the samples). The parameter observed in the Mie scattering experiment is a function of the Mie scattering intensity to the angle. This research aims to analyze the particle distribution effect to the mie scattering phenomena experimentally via image processing technique as the preliminary study in particle size analyser development. The Nanoparticle samples that have been used to do this research are polystyrene latex with an average size of a particle of 108 nm, and Fumonisin B1 with an average size of a particle of 36.4 nm. The result of the experiment from those two type of samples was the plot of color intensity that extracted from the image (photo)at varied scattering angle. The graph of scattering intensity of polystyrene sample with the average size of 108 nm has a peak value higher than sample Fumonisin B1 with the average size of 36.4 nm. Generally, the light has been scattered weaker at Fumonisin B1 samples compared to polystyrene latex nanoparticle samples.





Title: Prediction of Parkinson's Disease from Voice Signals

Using Machine Learning

Name: Sreeja S R

University/Organization: Amrita University

Abstract:

Parkinson's Disease (PD) is a neurological disorder related to the Central Nervous System, that influence the motion of an individual. Normally, the patients suffering from Parkinson's Disease have low voice volume with monotone quality. To automate the prediction of this neurological condition, audio signals from the UCI dataset repository had been taken. The major features like Jitter, Shimmer, Harmonic/Noise Ratio, Noise/Harmonic Ratio etc were extracted for the study. In the prior work, LSTM based model was experimented on this dataset to get an accuracy of 83%. To enhance the model accuracy, a combination of CNN and LSTM were employed in this work. From the study it was observed that the combination model exhibited a better classification accuracy of 85% when compared to the traditional machine learning models which include Support Vector Machine and Recurrent Neural Network like LSTM.

Index Terms - Machine Learning, Deep Learning, Parkinson's Disease, CNN, LSTM





Title: Control and Monitoring Systems of a Smart Hybrid-Powered Integrated Soil-less Farming Facility with a Fuzzy Logic-based Decision Support Module for Crop Planning to Enhance Agricultural Sustainability.

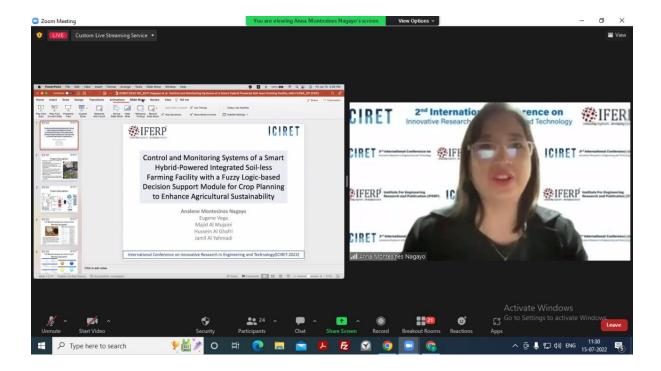
Name: Analene Montesines Nagayo

University/Organization: University of Technology and Applied Sciences – Al Musanna, Al Muladdah, sultanate of Oman

Abstract:

This paper describes the design and operation of the following subsystems as an enhancement to the existing aquaponics greenhouse on the UTAS-Al Musanna campus in order to promote agricultural sustainability on a continuous basis: 1) an aeroponics system that allows crops to grow using air mist, transforming the greenhouse into a fully integrated soil-less farming facility; 2) an IoTbased smart control and monitoring system that uses Particle Photon microcontrollers connected with sensing devices and actuators to reduce operating costs and improve farm owners' access to all water quality and environmental parameters; 3) a 2.8KW micro-hybrid renewable energy (wind and solar) conversion system for continuous and stable power supply, 4) a plant health monitoring module using a Raspberry PI microcontroller interfaced with PI camera, and 5) a fuzzy logic-based crop planning decision support implemented in MATLAB. The Particle Photon microcontrollers read and analyzed water quality indicators in the recirculating aquaculture tanks and hydroponic beds, as well as environmental parameters in the greenhouse and aeroponics grow chambers. When sensor readings fell outside of acceptable ranges for effective nitrification, oxidation, and photosynthesis processes, the IoT-based microcontroller system activated the necessary actuators. The system's events and data were published in the Thing Speak cloud platform for real-time monitoring and displayed in the SEAAGSAO mobile app created with MIT App Inventor. In addition, the Raspberry PI-based plant health monitoring system classified the crop's health status with 94 percent accuracy and sent a supervisory warning signal to the Thing Speak cloud and mobile app to alert the farmer of the condition. Furthermore, the Fuzzy logicbased decision support system for crop planning (FL-DSSCP) was able to forecast vegetable crops that are suited for cultivation and will provide a high yield for a certain season.

Index Terms— aquaponics, aeroponics, renewable energy, Internet of Things, fuzzy logic, agricultural sustainability





Title: Predicting Faculty Research Productivity using J48

Decision Tree Algorithm **Name:** Ranie B. Canlas

University/Organization: Don Honorio Ventura State

University

Abstract:

Research productivity is seen as a shared issue present in most academic institutions, as research output requires skills, time and patience. In the Philippines, higher education institutions are mandated to undertake research and other similar investigations in various academic areas since they are one of the key institutions who play major role in the generation and dissemination of knowledge. This study generally aimed to come up with prediction model for faculty research productivity. Specifically, it tried to seek solutions to the following: identification of necessary attributes that have significant relationship to faculty research productivity, generate computational model for predicting research productivity of faculty through J48 Decision Tree Algorithm and validate the performance of computational model using confusion matrix analysis, precision, recall and f-measure. Results showed that attributes such as paper proposal, length of service, age, teaching loads, academic ranks, designation/s, civil status, academic qualification, sex and status of appointment has vital influence to research productivity of faculty. The computational model generated had an acceptable

computed accuracy, precision, recall and f- measure results. Based on the data model performance results, the system can be used and can be implemented in an actual working system.



Conference Day - 2

8. Welcome Speech



Dr. Shreshth ChhabraMember of faculty-Management,
Daly College Business School,
Indore.

Dr. Shreshth Chhabra - Member of faculty-Management, Daly College Business School, Indore to deliver his welcome speech.



9.SCIENTIFIC PROGRAM

| Day | Session | Topic |
|-------|---------------------|--|
| Day 2 | Technical Session I | Engineering, Technology and other related topics |

9.1 Technical Session I

- ♣ Information Technology (IT) Governance framework with Artificial Neural Network and Balance Socrecard to improve the success rate of software projects
 Presentation by M Maria Antony Ranesh
 - ♣ Comparison between the dissolution profiles of two prednisone tablet commercially available in Algeria.

Presentation by Ouarda Benaziz

- ♣ Automatic Detection Of Plant Leaf Disease Using Deep Learning Presentation by M.Venkateswarlu
- ♣ Iot Based Industrial Parameters Monitoring System Presentation by M.Vidya
- ♣ Driver Monitoring And Vehicle Controlling Using Iot Presentation by Mr.G.Veerapandu

♣ Pre, Post and Symmetric Compensation techniques in optical communication systems at 5Gbps, 10Gbps and 15Gbps

Presentation by K.V.BalaRama Krishna

- ♣ Iot Based Smart Shopping Cart Using Rfid Technology Presentation by Mr. S. Siva Prasad
- ♣ Accident Detection System Using Gps & Gsm Presentation by B. Janardhana Vamsi
- ♣ Raspberry Pi Based Intruder Alert System Presentation by P Ramesh
- ♣ Automated Fluid Level Sensing and Controlling System Using IOT Presentation by Mr.G.VeeraPandu
- ♣ SMART ELECTRICITY MONITORING AND CONTROL USING IOT Presentation by K Vijaya Kumari
- ♣ IOT Integration To Cloud Service Aws For Home Security Monitoring Presentation by Khalesh Busa
- ♣ Design of an intelligent management system for agricultural greenhouse based on IOT Presentation by K Vijaya Kumari
- ♣ Emergency Rescue System Using Sensor Fusion And Machine Learning Algorithm Presentation by K Busa
- Ultrasonic Blind Stick Using GPS and GSM Based Tracking System Presentation by P Ramesh
 - ♣ DESIGN OF IOT DEVOLOPMENT BOARD USING ARDUINO AND ITS APPLICATIONS

Presentation by M.Kishore Kumar

♣ Home Automation using GSM Presentation by Phanimala

9.2 Highlights Day1 session

9.2.1 Most Enjoyed Presentations

Title: Automated Fluid Level Sensing and Controlling System

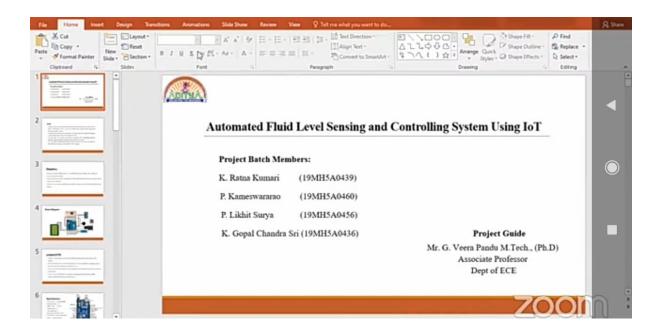
Using IOT

Name: Mr.G.VeeraPandu

University/Organization: Aditya College of Engineering

Abstract:

One of the topics which is growing very popular now a day's is Fluid Level Management System in IOT. Because it has a various advantage so that people can do their work very easily and effectively. Fluid level management system refers to the monitoring and controlling the level of water inside the tank, bore-wells, river, ponds, industrial areas, and other water streams, and the liquid inside the container. The growth of Internet of Things (IOT) paved the significant attention in all fields. In this proposed system we have designed the wide ranging fluid level control and managing techniques with central controller based ARDUINO with the cloud based techniques and the internet performance with Wi-Fi modules with monitoring fluid levels on LCD as well as on App or server. To achieve the objective cloud database technique is maintained which encapsulate the periodic monitoring water level data and vicinity information. The sensor data is collected periodically that are uploaded to the cloud database where the automatic comparison analytics about the increase in water level is noted. Thus, the prior stages of rise in fluid level are automatically alerted to the public respectively. User can control the Pump using Mobile Telnet application with in the Wi-Fi range. Finally, it was observed that the level of accuracy is grown by this technique in comparison with ordinary method of monitoring and alerting system.





Title: Information Technology (IT) Governance framework with Artificial Neural Network and Balance Socrecard to improve the success rate of software projects

Name: M Maria Antony Ranesh

University/Organization: Sathyabama Institute of Science and

Technology

Abstract:

Abstract— IT governance enables companies to plan and manage their IT investments in order to achieve their strategic objectives. Overall goal of this paper is to discuss about an approach to improve the success rate of the software projects through Artificial Intelligence. Various governance standards are analyzed to understand the impact on software project success rates. Enterprise governance is a subset of IT governance that aids in the management of information technology resources. COBIT is a widely used methodology for developing effective enterprise IT governance. ISACA (Information Systems Audit and Control Association) stated implementation solution currently uses a sequentially ordered approach, which has raised issues. Several challenges have arisen as a result of top management's lack of commitment and misplaced solutions. Limitation on this investigation is the customized and confidential governance pattern used across various organization, hence there are very limited real time data for end-to-end analysis. Nonetheless, in combination with the agile project management paradigm, new project life-cycle solutions have evolved. Artificial Intelligence (AI) has become a key technology in recent years as a result of rising need for automated systems that run without human intervention. As a result, because it uses discrete and insufficient data to

arrive at the best possible solution, the artificial neural network (ANN) method is highly useful in this case. This study found that ANN with Balance Score Card was exceptionally effective in providing the optimal solution to increase the project success rates.

Index Terms— Artificial Intelligence, Project Management, Critical success factors, management, IT governance, COBIT, Artificial neural network (ANN), Balance Scorecard

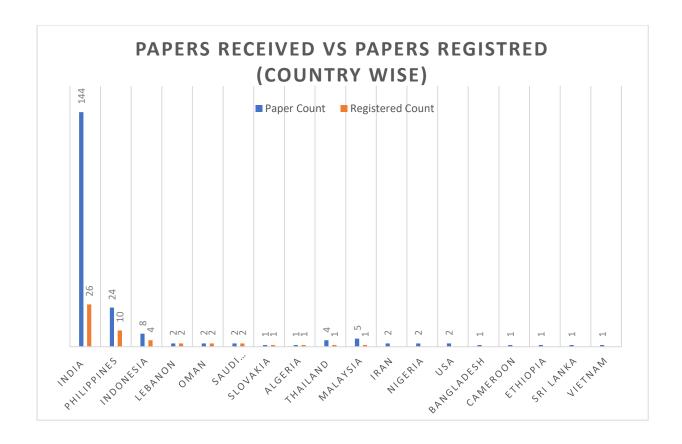


10.SURVEY ANALYSIS

10.1 Registered Statistics

| Country | Paper Count | Registered Count |
|--------------|--------------------|-------------------------|
| India | 144 | 26 |
| Philippines | 24 | 10 |
| Indonesia | 8 | 4 |
| Lebanon | 2 | 2 |
| Oman | 2 | 2 |
| Saudi Arabia | 2 | 2 |
| Slovakia | 1 | 1 |
| Algeria | 1 | 1 |
| Thailand | 4 | 1 |
| Malaysia | 5 | 1 |
| Iran | 2 | |
| Nigeria | 2 | |

| USA | 2 | |
|------------|-----|----|
| Bangladesh | 1 | |
| Cameroon | 1 | |
| Ethiopia | 1 | |
| Sri Lanka | 1 | |
| Vietnam | 1 | |
| Total | 204 | 50 |



11.VALIDICTORY

In the Valedictory best paper and best paper Presentation of 2nd International Conference on Innovative Research in Engineering and Technology (ICIRET-22) was announced.

11.1. Best paper award

| Conference Day | Paper Title | Author Name |
|-----------------------|--|-------------------------|
| Day 1 | Experimental study of nanoparticles size distribution effect to the Mie scattering intensity | John Alezander Gobai |
| Day 1 | Prediction of Parkinson's Disease from Voice Signals Using Machine Learning | Sreeja S R |
| Day 2 | Automated Fluid Level Sensing and Controlling System Using IOT | Mr.G.VeeraPandu |

11.2. Best paper Presentation award

| Conference Day | Paper Title | Author Name |
|-----------------------|--|---------------------------------|
| Day 1 | Control and Monitoring Systems of a Smart Hybrid-Powered Integrated Soil-less Farming Facility with a Fuzzy Logic-based Decision Support Module for Crop Planning to Enhance Agricultural Sustainability | Analene Montesines Nagayo |
| Day 1 | Predicting Faculty Research Productivity using J48 Decision Tree Algorithm | Ranie B. Canlas |
| Day 2 | Information Technology (IT) Governance framework with Artificial Neural Network and Balance Socrecard to improve the success rate of software projects | M Maria Antony Ranesh |

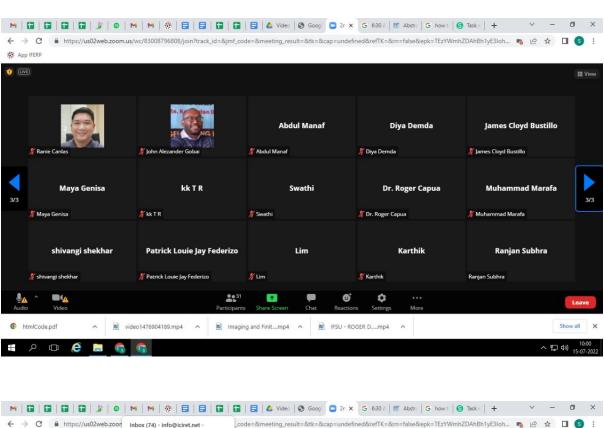
12.VOTE OF THANKS:

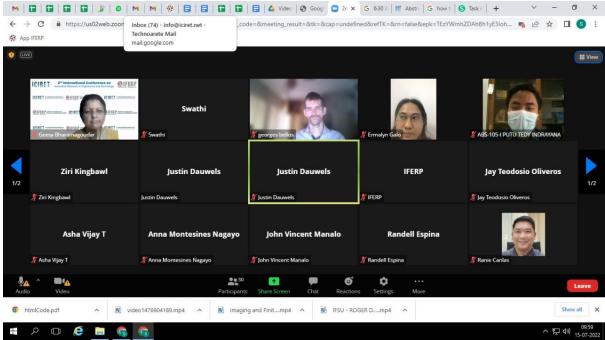
On behalf of IFERP I heartily thank all the delegates and students who have contributed to the conference success. The conference, which focused on Discover the Difference and Exceeding the Vision in multidisciplinary research studies and it was a great success where eminent keynote speakers from various universities addressed the gathering.

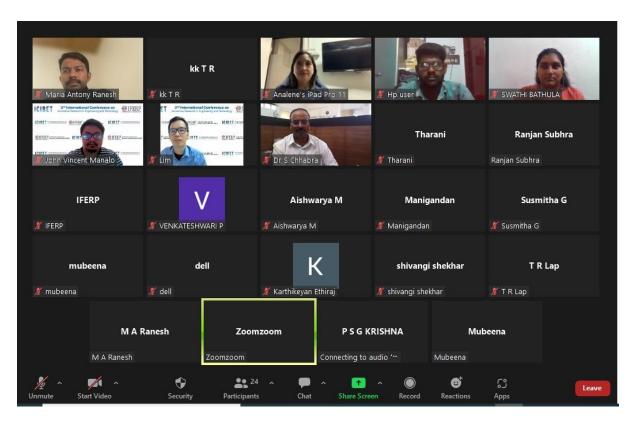
We take this opportunity to thank all of the speakers, delegates, and participants for your vital support and time for the ICIRET-2022, thanks to the generous response and active engagement of the Organizing Committee Members and Editorial Board members.

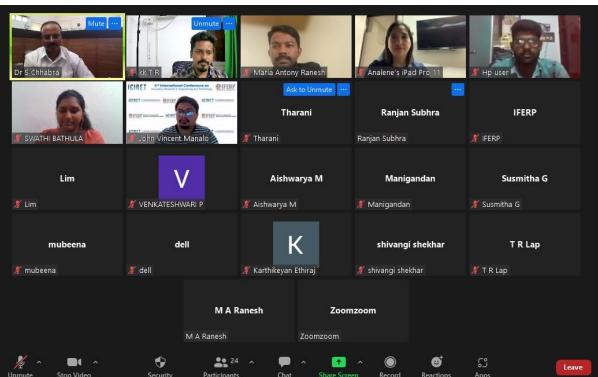
Congratulations to the Best Paper and Best paper presentation awardees and appreciates all of theparticipants for their hard work. Once again thanks to all committee members and participants. Stay tuned with us for further Conference updates from IFERP.

13.CONFERENCE GLIMPSES

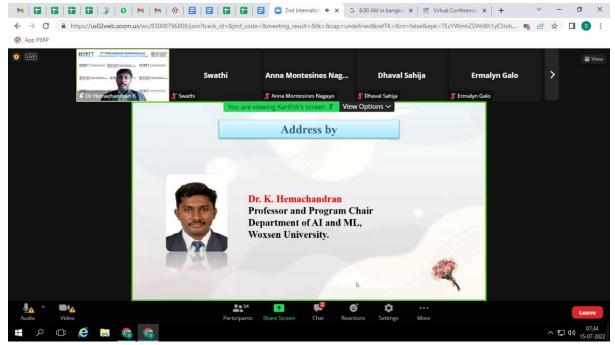


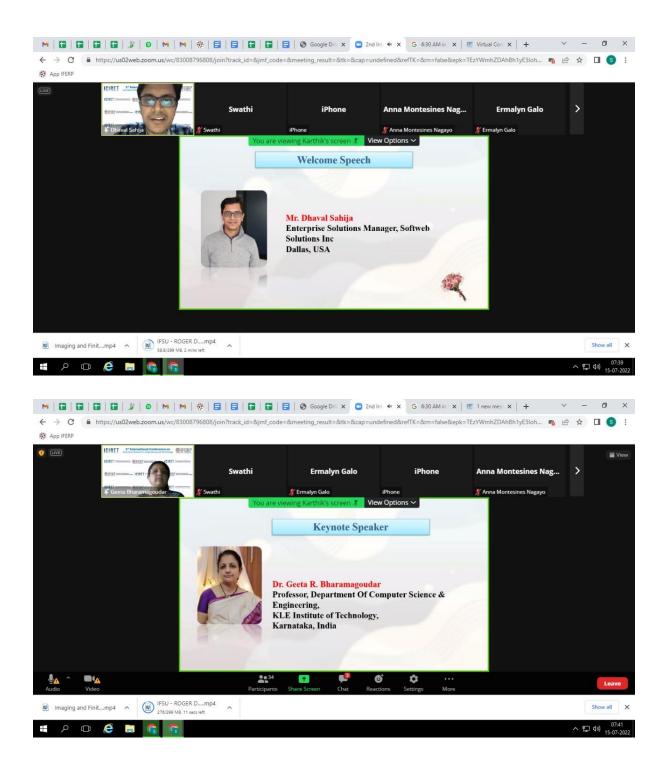


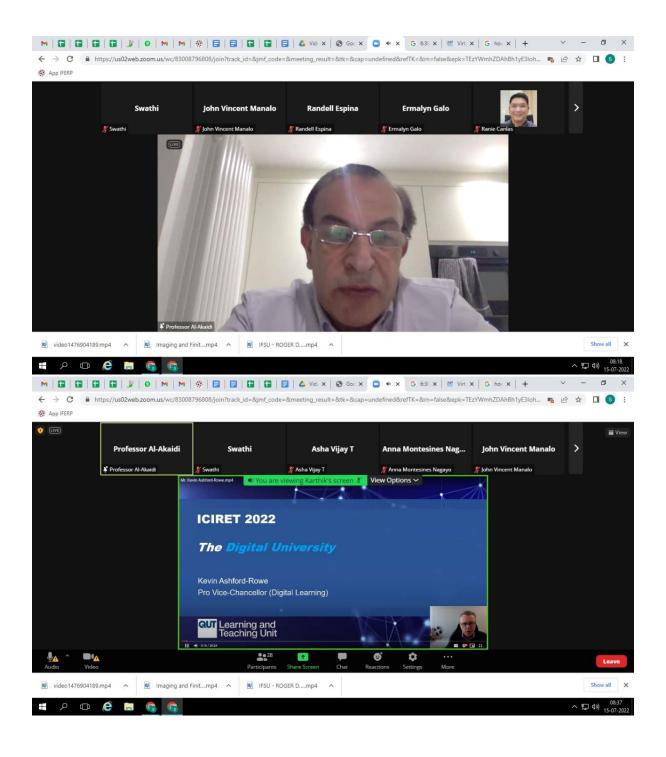


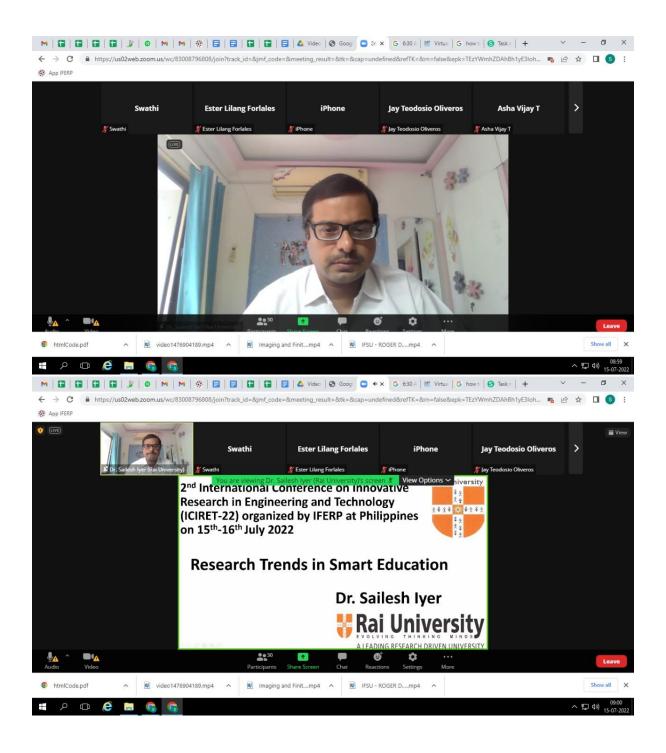


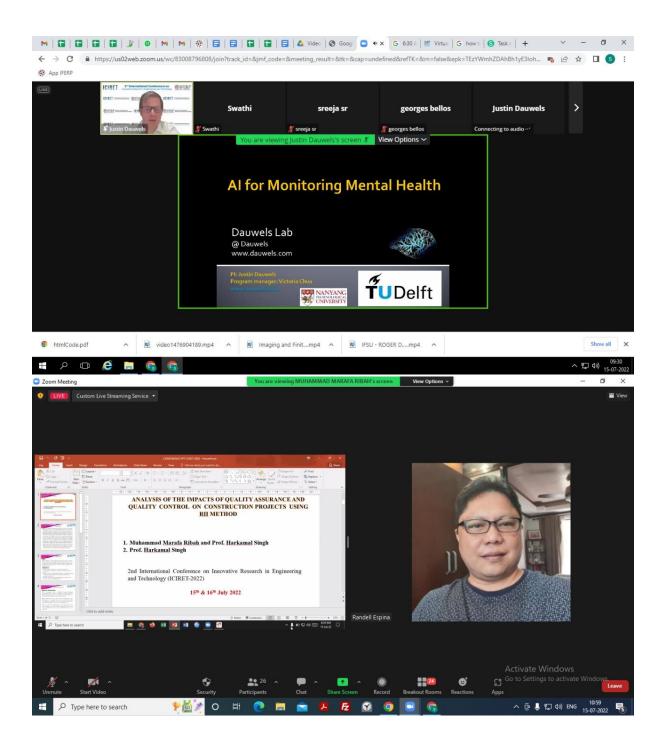


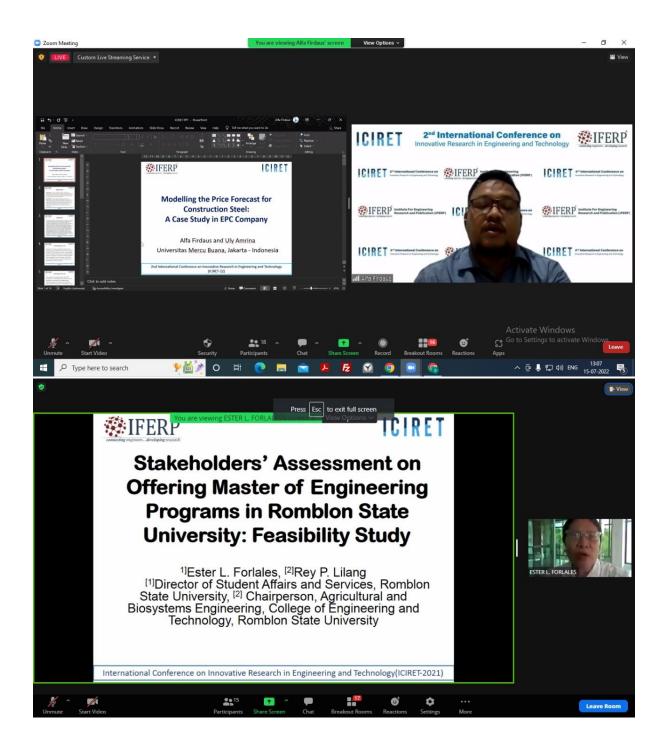


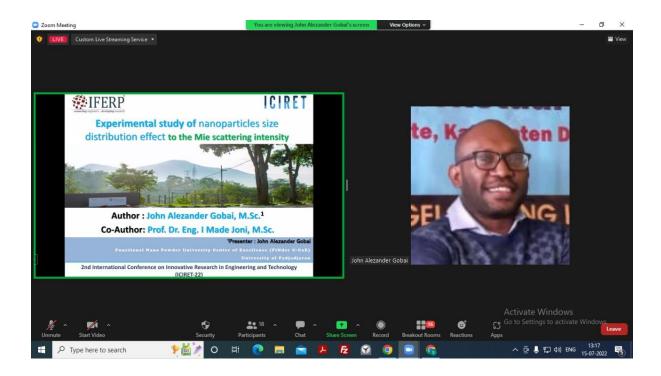


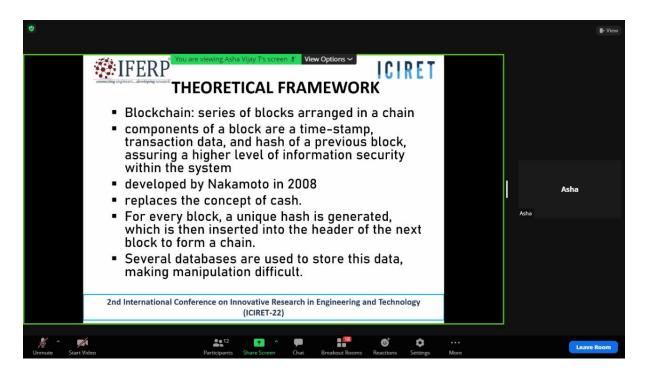


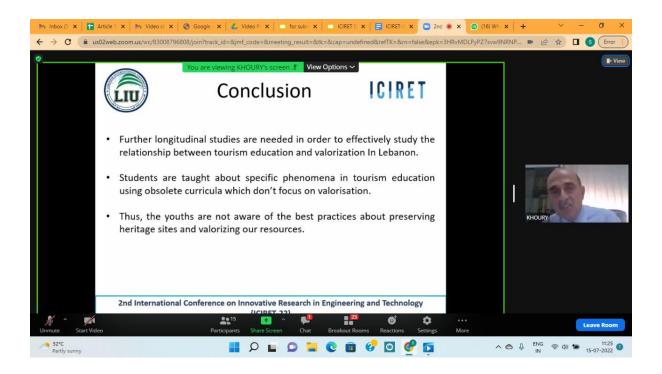




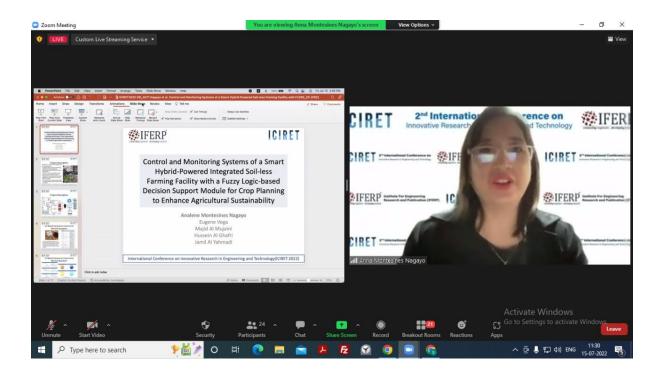


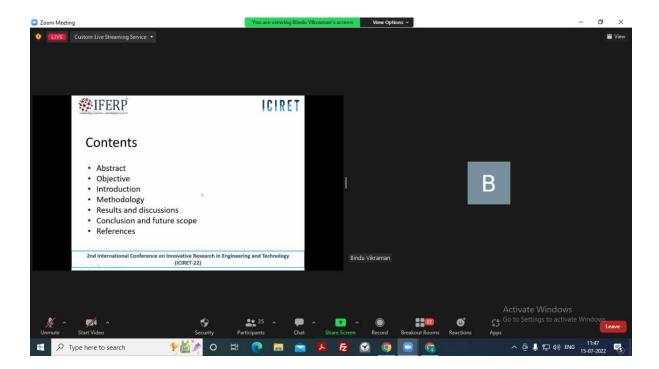


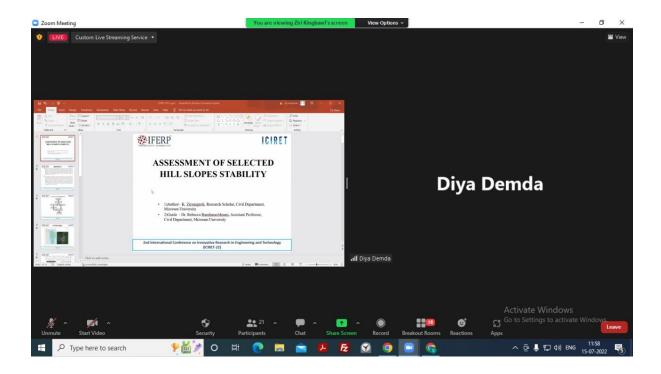


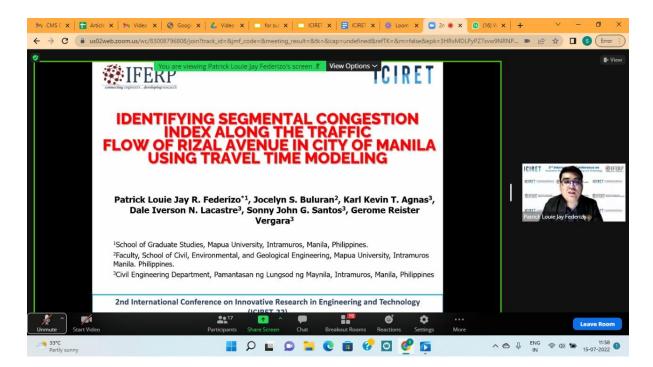


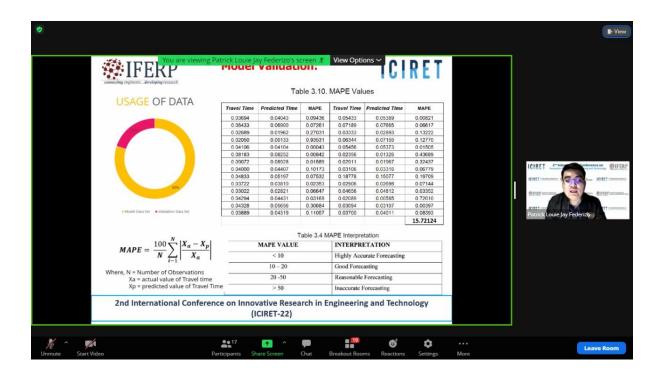


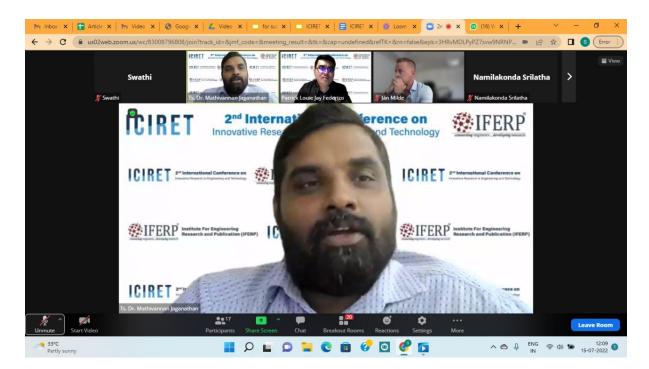


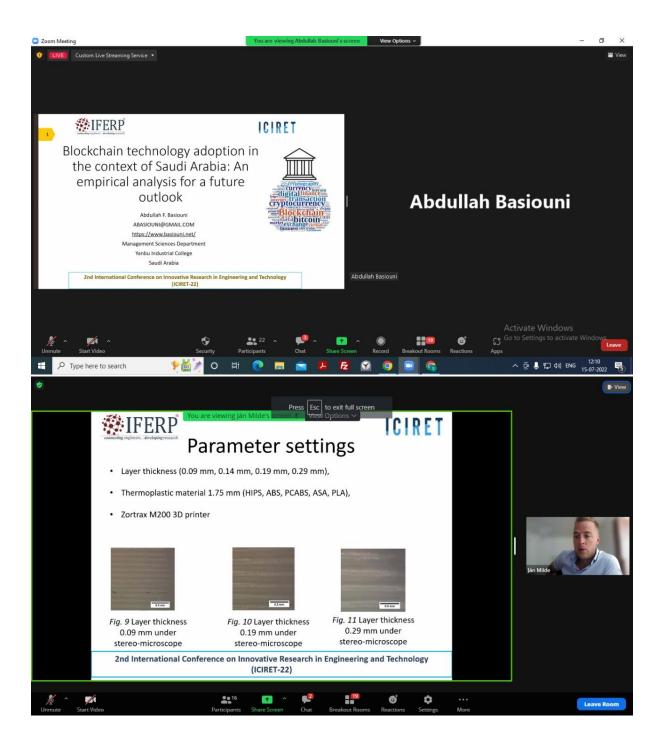


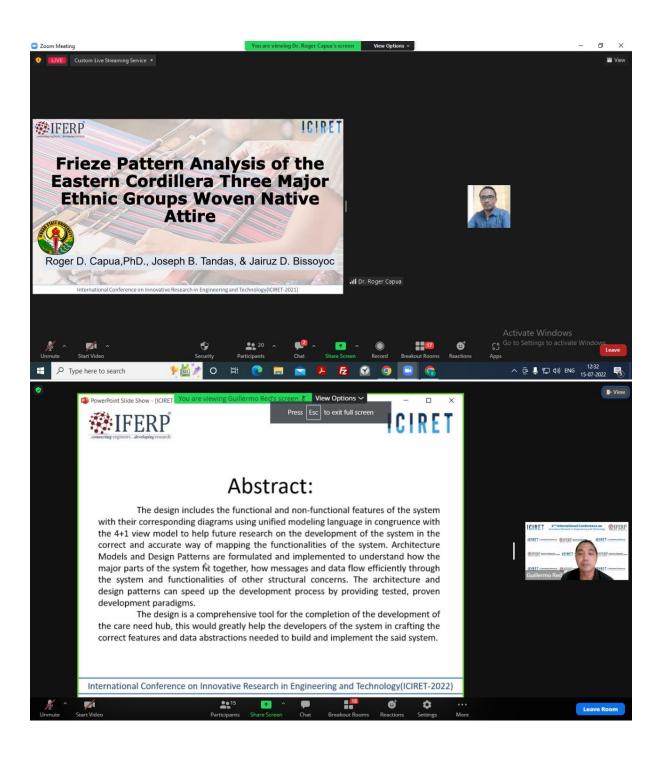






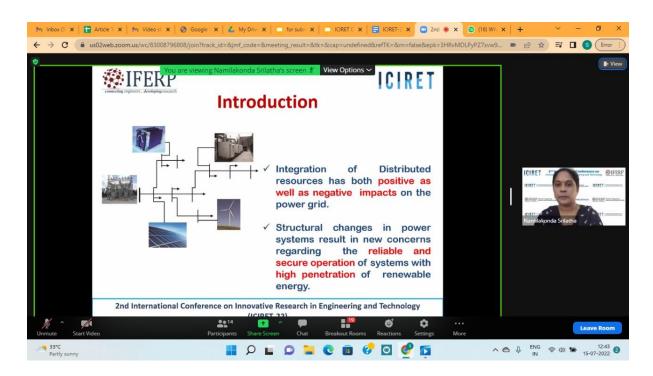


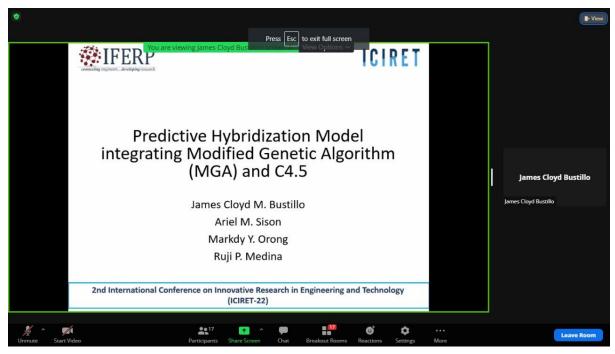












Our Associates





















Conference Documents

Click the below link to download the ICIRET-22 Poster, Brochure & Proceedings Book https://drive.google.com/drive/u/2/folders/1jjPlm8tXhLjbtkr5EmiXy7-trlVY1srr

Conference Background



2nd International Conference on























14.Conference Feedback

| Name | University | Country | overall | Comment | Comment | Comment | Overall Organizati on | Conferenc e Registrati ons | Speak er Qualit y |
|--|---|-----------------|--------------------|---|---|--|-----------------------------|-------------------------------------|----------------------------|
| Patrick Louie Jay Federizo | Mapua University | Philippin es | Satisfact ory | Good | Good | Good | Good | Good | Good |
| JAMES CLOYD MADRID BUSTILL O | Technologi cal Institute of the Philippines - Quezon City | Philippin es | Satisfact ory | Well prepared | Nice | Well organized | Very Good | Good | Good |
| Bindu Puthenthar ayil Vikraman | University of Technolog y and Applied Sciences- Al Mussanah | Oman | Yes- definitely | Conferen ce was well organized | good | good | Very Good | Very Good | Very Good |
| Georges Bellos | Lebanese Internation al University | Lebanon | Yes- definitely | very good | very good | very good | Very Good | Very Good | Very Good |
| G Veerapand u | Aditya college of engineerin g, JNTUK Kakinada | India | Yes- definitely | Good | Good | Good | Very Good | Very Good | Very Good |
| John Alezander Gobai | University of Padjadjara n | Indonesi a | | We need to promote the conferenc e so that the participan ts will be increase in the future | It was effective even though there was so many noise due to the connection. But It was really good conference | The conference organizati on is enough good. I suggest you to coordinate with a team especially when the conference is going forward. We need some people as a co-host to handle if the host has a | Good | Very Good | Good |

| | | | | | | problem due to the connectio n. | | | |
|--------------------|---|-----------------|--------------------|--|--|----------------------------------|--------------|--------------|--------------|
| Lim Fung Ji | Tunku Abdul Rahman University College | Malaysia | Satisfact ory | Satisfacto ry | Satisfacto ry | Satisfacto ry | Good | Good | Good |
| Asha Vijay T | Kerala University of Fisheries and Ocean Studies | India | Satisfact ory | Satisfacto ry | Very much effective with advanced technolog ies | Organise d effectivel y | Very Good | Good | Good |
| Ranie B. Canlas | Don Honorio Ventura State University | Philippin es | Yes- definitely | One of the great conferenc es that I have participat ed. | Topics that were presented and discuss were relatable. | Well organized | Very Good | Very Good | Very Good |

- 1. Overall, how was the CONFERENCE ? :9 Star
- 2. After the event, how inspired did you feel ?: 9 Star
- 3. Would you recommend a similar event to a friend? :Yes-definitely

4. The Speakers

Evaluate presenters on how they met the criteria below

Speaker 1:- Dr. Geeta R. Bharamagoudar Interesting and entertaining :Mostly

Relevant to you :Mostly

Inspiring :Mostly

Speaker 2:- Mr. Kevin Ashford-Rowe Interesting and entertaining :Mostly

Relevant to you :Mostly

Inspiring :Mostly

Speaker 3:- Professor Marwan Al-Akaidi Interesting and entertaining :Mostly

Relevant to you :Mostly

Inspiring :Mostly

Speaker 4:- Professor Marwan Al-Akaidi Interesting and entertaining :Mostly

Relevant to you :Mostly

Inspiring: Mostly

Speaker 5:- Professor Marwan Al-Akaidi Interesting and entertaining :Mostly

Relevant to you :Mostly Inspiring :Mostly

Email:james.cloyd.bustillo@aclcbutuan.edu.ph

Message :Thank you

- 1. Overall, how was the CONFERENCE ?: 10 Star
- 2. After the event, how inspired did you feel ?: 10 Star
- 3. Would you recommend a similar event to a friend? :Yes-definitely

4. The Speakers

Evaluate presenters on how they met the criteria below

Speaker 1:- Dr. Geeta R. Bharamagoudar Interesting and entertaining :Definitely

Relevant to you :Definitely

Inspiring :Definitely

Speaker 2:- Mr. Kevin Ashford-Rowe Interesting and entertaining :Definitely

Relevant to you :Definitely

Inspiring :Definitely

Speaker 3:- Professor Marwan Al-Akaidi Interesting and entertaining :Mostly

Relevant to you :Mostly Inspiring :Mostly

Speaker 4:- Professor Marwan Al-Akaidi Interesting and entertaining: Definitely

Relevant to you :Mostly

Inspiring: Mostly

Speaker 5:- Professor Marwan Al-Akaidi Interesting and entertaining :Mostly

Relevant to you :Mostly Inspiring :Mostly

Email: veerapandu2004@gmail.com

Message :very good conference and is useful for my career

- 1. Overall, how was the CONFERENCE ?: 8 Star
- 2. After the event, how inspired did you feel ? :7 Star
- 3. Would you recommend a similar event to a friend? :Yes-definitely

4. The Speakers

Evaluate presenters on how they met the criteria below

Speaker 1:- Dr. Geeta R. Bharamagoudar Interesting and entertaining :Mostly

Relevant to you :Somewhat

Inspiring :Somewhat

Speaker 2:- Mr. Kevin Ashford-Rowe Interesting and entertaining :Mostly

Relevant to you :Somewhat Inspiring :Somewhat

Speaker 3:- Professor Marwan Al-Akaidi Interesting and entertaining :Mostly

Relevant to you :Somewhat

Inspiring :Mostly

Speaker 4:- Professor Marwan Al-Akaidi Interesting and entertaining :Mostly

Relevant to you :Somewhat

Inspiring :Mostly

Speaker 5:- Professor Marwan Al-Akaidi Interesting and entertaining :Mostly

Relevant to you :Somewhat

Inspiring :Mostly

Email:johnagobai@gmail.com

Message: I got the suggestions and advices.

- 1. Overall, how was the CONFERENCE ?: 8 Star
- 2. After the event, how inspired did you feel ? :7 Star
- 3. Would you recommend a similar event to a friend? :Yes-definitely

4. The Speakers

Evaluate presenters on how they met the criteria below

Speaker 1:- Dr. Geeta R. Bharamagoudar Interesting and entertaining :Mostly

Relevant to you :Somewhat

Inspiring:Somewhat

Speaker 2:- Mr. Kevin Ashford-Rowe Interesting and entertaining :Mostly

Relevant to you :Somewhat

Inspiring :Somewhat Speaker 3:- Professor Marwan Al-Akaidi Interesting and entertaining :Mostly

Relevant to you :Somewhat

Inspiring :Mostly

Speaker 4:- Professor Marwan Al-Akaidi Interesting and entertaining :Mostly Relevant to you :Somewhat

Inspiring: Mostly

Speaker 5:- Professor Marwan Al-Akaidi Interesting and entertaining :Mostly Relevant to you :Somewhat

Inspiring: Mostly

Email:johnagobai@gmail.com

Message: I got the suggestions and advices.

- 1. Overall, how was the CONFERENCE ? :9 Star
- 2. After the event, how inspired did you feel ?: 9 Star
- 3. Would you recommend a similar event to a friend? :Yes-definitely

4. The Speakers

Evaluate presenters on how they met the criteria below

Speaker 1:- Dr. Geeta R. Bharamagoudar Interesting and entertaining :Mostly

Relevant to you : Mostly

Inspiring : Mostly

Speaker 2:- Mr. Kevin Ashford-Rowe Interesting and entertaining :Mostly Relevant to you :Somewhat

Inspiring : Mostly

Speaker 3:- Professor Marwan Al-Akaidi Interesting and entertaining :Mostly

Relevant to you :Mostly Inspiring :Definitely

Speaker 4:- Professor Marwan Al-Akaidi Interesting and entertaining :Definitely

Relevant to you :Mostly Inspiring :Definitely

Speaker 5:- Professor Marwan Al-Akaidi Interesting and entertaining :Mostly

Relevant to you :Mostly Inspiring :Definitely

Email: limfj@tarc.edu.my Message: The event is valuable