# **Conference Report**

2nd International Conference on Advancing Knowledge from Multidisciplinary Perspectives in Engineering & Technology (ICAKMPET-21)



## 22nd & 23rd December 2021

**Virtual Conference** 

Organized By
Institute For Engineering Research and Publication
(IFERP)



www.icakmpet.com

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## 1. EVENT SUMMARY

**Conference Name:** 2nd International Conference on Advancing Knowledge from Multidisciplinary Perspectives in Engineering & Technology (ICAKMPET-21)

Date: 22nd - 23rd December 2021

**Conference Theme:** Discover the Difference and Exceeding the Vision in multidisciplinary

research studies

**Mode/Place:** Virtual Conference

**No of Delegates** :36 Delegates for the conference

#### 1.1 OVERVIEW

International 2nd International Conference on Advancing Knowledge from Multidisciplinary Perspectives in Engineering & Technology (ICAKMPET-21) held on the 22nd - 23rd December 2021 as a Virtual. Which is Organized by Institute for Engineering Research and Publication (IFERP).

Participation at the ICAKMPET-2021, will be an exceptional convention to interface and present opinions on prevailing developments with various academics and experts in their corresponding domain or related disciplines. All members from the global experimentation and research society are urged to partake in this convention to bestow their expertise on contemporary progressions taking place in all disciplines of engineering and technology.

#### **Call For Paper:**

Engineering & Technology

**Businees & Management Studies** 

Science, Education, Social Science and Other important areas

#### 1.2 CONFERENCE THEME

2nd International Conference on Advancing Knowledge from Multidisciplinary Perspectives in Engineering & Technology (ICAKMPET-21) is focused to Discover the Difference and Exceeding the Vision in multidisciplinary research studies. Aimed to identify challenges, difficulties faced in adapting and application of new innovations made in respective fields.

This remarkable event was help participants sharpen their skills and refine their ideas as well as approaches by meeting with their peers and counterparts. They also had the chance to meet the experts and high-level delegates, along with share ideas and research findings from past and present. Participants can build new networks to meet different personalities and learn about the latest tools available.

This conference serves as a unique confluence of networking, entertainment, learning, and in one ensemble. This event will require you to develop and challenge participants with their ideas and proposals.

#### 2. ABOUT THE CONFERENCE

ICAKMPET 2021 aimed to help business and technology experts cut through the excitement and learn how research idea successfully deployed to build competitive advantage, drive new business opportunities, reduce costs and accelerate innovation efforts. ICAKMPET 2021 encourages all researchers (young and experienced) to make their research findings known to the world by submitting relevant research papers, irrespective of what specific field in Engineering and Technology, they specialize in.

ICAKMPET 2021 was inspire and welcome innovative ideas, methodologies, research findings and processes in Multi-Disciplinary Research.

At ICAKMPET 2021 we also studied on solutions for environmental, psychological issues raised due to the developments in Science, Technology, Engineering, and Management.

#### 3.CONFERENCE SCOPE

ICAKMPET-2021 topics include, but are not limited to, the following research and development areas/fields.

**Engineering & Technology** 

**Businees & Management Studies** 

Science, Education, Social Science and Other important areas

As a result, many Keynotes, Tutorial 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, dignitaries and Keynote speakers for the conference followed by the proceedings book release and introduction of session chair for the technical sessions.

#### 4.1 Welcoming and Opening Ceremony

Welcome the Keynote Speakers of the 2nd International Conference on Advancing Knowledge from Multidisciplinary Perspectives in Engineering & Technology (ICAKMPET-21)

### **Keynote Speakers**



Dr. Robert Eberhart
Associate Director of
Research on
Entrepreneurship and
Society
Stanford University,
California



Dr. Suman Majumder Head of Research and Development Bajaj Consumer Care Mumbai, Maharashtra, India



Dr. Hatem Hatef
Abdulkadhim Alyasari
Altaee
Professor of
Econometrics
Cihan University –
Sulaymaniyah
Sulaymaniyah,
KRI, Iraq



Dr. Suhail Mohammad
Ghouse
Associate Professor of
Marketing and
Entrepreneurship
Dhofar University,
Oman

Followed by, welcomed our session chair of the 2nd International Conference on Advancing Knowledge from Multidisciplinary Perspectives in Engineering & Technology (ICAKMPET-21). ICAKMPET Consist of the 3 sessions. Which was spitted as session 1A, 1B and Session 2

## **Session chairs**



Dr. Runato Armenia Basañes
Dean & Associate Professor
IV
College of Teacher
Education University of
Antique
Sibalom, Philippines



Dr. Froilan D. Mobo
Associate Professor II /
Assistant Director
Department of Research,
Development, and Extension
Philippine Merchant Marine
Academy
Zambales, Philippines



Dr. Chitra Kiran. N
Professor and HOD
Electronics and
Communication Engineering
Alliance University,
Bangalore, India



Dr.S. Balakrishnan
Professor and Head,
Department of Computer
Science and Business
System,
Sri Krishna College of
Engineering and Technology,
Tamilnadu, India.



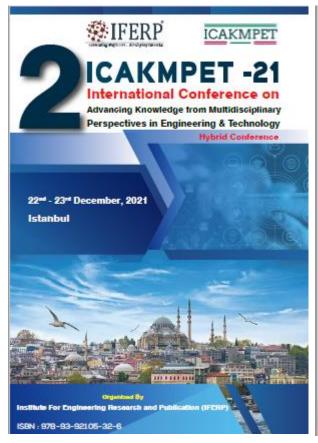
Dr.D.S.Robinson Smart,
Professor
Mechanical Engineering
Karunya Institute of
Technology and Sciences
Coimbatore India



Dr. Moh'd A. Radaideh
Associate Professor,
Department of Software
Engineering
Jordan University of Science
and Technology
Irbid, Jordan

## **4.2 Conference Proceedings release**

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





## 4.3 Dignitaries Speech

Mr. Siddth Kumar Chhajer sir delivered his speech behalf of IFERP and welcome all Keynote speakers, session chairs, committee members and participants.



Mr. Siddth Kumar Chhajer MD & Founder of Technoarete Groups India

#### **Biography:**

He is an entrepreneur, investor, philanthropist, founder & Managing Director of Technoarete Groups. He had 8 years of experience in organizing scientific conferences. He completed his education in Engineering from SRM university, Chennai and MBA from ST.Peter's University, Chennai. He is interested in doing several socio-academic activities for the welfare of the society. Under his guidance IFERP became one of the fastest growing organization in Asia. His organization received the "Best Scientific Conference Production House of 2018" From ABP. With success knowing no limit Mr.Siddth attribute his fame to team work and the entrepreneur spirit which together have enable transform to risk to opportunities to handle for ever changing environment in education & technologies.



## 4.3.1 Keynote and Tutorial Speeches



Dr. Robert Eberhart Associate Director of Research on Entrepreneurship and Society Stanford University, California.

#### **Biography:**

Robert N. Eberhart (Ph.D. Stanford 2014) directs research at Stanford University's Graduate School of Business where he studies entrepreneurship and how it shapes society. He earned his Ph.D. in Management Science from Stanford University and his academic publications span topics such as new theoretical constructs on how institutional change has complex effects on new firms and how entrepreneurship is changing society. He sits on the boards of technical ventures and non-profits in the U.S. and Japan. Before his academic career, Dr. Eberhart was a partner at Pacific Rim Partners, and he was the founder and CEO of WineInStyle KK in Tokyo, Japan. He has advised governments in the U.S., Japan and Sweden. Prior to founding WineInStyle, Dr. Eberhart was an executive with semiconductor and electronics hardware companies.



**Keynote gave Speech about** Organizational Challenges and Root Cause Interpretations: Evidence from a Longitudinal Study of Business Executives



Dr. Suman Majumder Head of Research and Development Bajaj Consumer Care Mumbai, Maharashtra, India

Biography:

Dr. Suman Majumder is a senior research and management professional with more than 20 years of experience in various industry sectors including Pharmaceutical, Polymer, FMCG (Food, Personal Care, Laundry, Hygiene), Packaging, and Agro-chemical. He has hands-on experience in setting up and managing research operations, product-based research and analytic functions, and contributing strategically to the overall business / institutional growth.

Over the years, he has completed multiple patentable innovations, applied for 18 patents (16 industrial & 2 individual) for different kinds of products & technologies. He has led multiple teams and projects with experienced scientists, implemented new technologies, and worked on a global scale with research and manufacturing counterparts across the globe. Other key areas of expertise include an aptitude for linking innovation to business, internal/external stakeholder management, and managing large-scale operations. He has contributed to the overall performance of the product portfolio by introducing ground-breaking formulations and innovating patentable products and processes. He has the acumen to create team synergy between management, functional resources, and research scientists. He has prepared and presented reports on possible business and marketing strategies around innovations and enhancements to assist senior leaders in informed decision-making. He has been an active member of the strategy leadership teams in my last few organizations including Sigma-Aldrich, Unilever, L'Oréal, Avery Dennison, and Bajaj Consumer Care. He held a Post-Doctoral Fellowship with Late Professor Alan Katritzky at the University of Florida and a Ph.D. from the University of Calcutta, from Center for Advanced Studies under the Directorship of Late Professor Asima Chatterjee.



**Keynote gave Speech about** Innovation is all about executing the creative idea — transforming the idea into commercial success in the right time



Dr. Suhail Mohammad Ghouse Associate Professor of Marketing and Entrepreneurship Dhofar University, Oman

#### Biography:

Dr. Suhail M. Ghouse is an Associate Professor of Marketing and Entrepreneurship at the College of Commerce and Business Administration, Dhofar University, Oman. He holds a PhD in Marketing and double master's in international business management. He is a Fellow of Chartered Institute of Marketing (CIM), UK and a Chartered Management Business Educator (CMBE) from the Chartered Association of Business Schools (CABS), U.K. His research areas include entrepreneurship, consumer behaviour, export promotion, internationalization of SMEs, digital marketing, etc. His research has been published in leading journals like International Journal of Entrepreneurial Behavior and Research, Journal of Entrepreneurship in Emerging Economies, International Journal of Entrepreneurship and Small Business, Young Consumers, Journal of Islamic Marketing, etc. and serves as a member of the editorial board/scientific committees of peer reviewed research journals and conferences. He has taught at undergraduate and post graduate levels in India, Saudi Arabia and Oman.



**Keynote gave Speech about** Gender and exposure based entrepreneutral attitudes of omani students



Dr. Hatem Hatef Abdulkadhim Alyasari Altaee Professor of Econometrics Cihan University – Sulaymaniyah Sulaymaniyah, KRI, Iraq

#### Biography:

Dr Hatem Hatef Abdulkadhim Alyasari Altaee is Professor of Econometrics at the University of Cihan Sulaymaniyah, Kurdistan region of Iraq. He formerly worked in Al-Qadisiyah university as a head of department for the period 1990-1993 and as a dean of economic and administration college for the period 1993-2001. From 2001-2003 he acted as a dean of economic and administration college in Al-Kufa University. After the occupation of Iraq in 2003 ha moved to Syria and worked for University of Kalammon as a head of Management Department till 2012. He also, lectured in the Arab Academy of Banking and Financial sciences, Damascus, Syria, during the period 2006-2012. From 2012-up now he is working as a head of department and as a lecturer in Cihan University Sulaymaniyah, KRI, Iraq.

Professor Hatem holds a Bachelor's degree in Economics from the University of Mustansiriyah, Baghdad, Iraq, in 1976. He continued his education in econometrics and got his master degree from the university of Detroit mercy, USA. He obtained a PhD in Econometrics from the University of Bradford. UK.



Keynote gave Speech about Oil Resource Curse

#### **5.1 National Advisory Committee Members**



#### Dr. Ibraheem Shayea

Associated Researcher, Electrical and Electronics Engineering Istanbul Technical University Istanbul, Turkey



#### Dr. Ismail Solmaz

Associate Professor, Mechanical Engineering
Atatork University
Erzurum, Turkey



#### Prof. Dr. Ahmet Faruk Aysan

Dean, School of Management and Administrative Sciences, Head of
Department of Economics
Istanbul Sehir University
Istanbul, Turkey



### Dr.MUSTAFA ERKAN KARAGÜLER

Professor, Department Of Architecture Istanbul University Istanbul, Turkey



#### Dr. Burcu Adiguzel Mercangoz

Associate Professor, Faculty of Transportation and Logistics Istanbul University ISTANBUL, Turkey



#### Dr.Caner Erden

Assistant Professor, Department Of Applied sciences Sakarya University Sakarya, Turkey



#### Dr.Gonca Atici

Head of Department, School of Business Istanbul Üniversitesi Istanbul, Turkey



#### Dr.HÜSEYİN YASİN UZUNOK

Associate Professor, Department Of Physics Sakarya University Sakarya, Turkey



**Dr.Ibrahim Kutay**Assistant Professor, Department Of Mechanical Engineering Sakarya University
Sakarya, Turkey



# Dr.ZUHAL ER Associate Professor, Department Of Physics ISTANBUL TECHNICAL UNIVERSITY Istanbul, Turkey



## Kahraman KÜÇÜK

Manager, Engine and Powertrain Hidromek Inc. Ankara, Turkey



### **Prof.Dr. Afsin Gungor**

Professor & Head, Mechanical Engineering Akdeniz university Antalya, Turkey



#### Dr. Yusuf KOÇAK

Post Doctoral Scientist, Department of Chemistry Bilkent University Ankara, Turkey

#### **5.2 International Advisory Committee Members**



#### Dr Hasan AL Dabbas

Vice Dean, Mechanical Engineering Philadelphia University Amman, Jordan



#### Dr. Mwaffaq Otoom

Dean & Associate Professor, Computer Engineering Yarmouk University Irbid, Jordan



#### Dr Rami Hikmat Al-Hadeethi

Vice - President, International Relations University of Victoria London, UK



#### **Anas Abdallah Ahmad Altawallbeh**

Head of Department, epartment of Mathematics School of Basic and Marine Sciences
The University of Jordan
Aqaba, Jordan



#### Dr. Balakrishnan. S

Professor & Head, Computer Science and Business Systems Sri Krishna College of Engg & Technology Tamilnadu, India



#### Dr. Abdul Shakoor

Head, Civil Engineering Abasyn University Islamabad pakistan Islamabad, Pakistan



#### Muhammad Zulhaziman Mat Salleh

Senior Lecturer, Chemical Engineering Universiti Kebangsaan Malaysia Bangi, Malaysia



#### Jamal I. Daoud

Associate Professor, Science in Engineering International Islamic University Malaysia Kuala Lumpur, Malaysia

















#### Erdogan H. Ekiz

Senior Lecturer, Management and Marketing Westminster International University Tashkent, Uzbekistan

#### Samer M. Abu-Ghazalah

Professor, Department of Architecture Engineering University of Jordan Amman, Jordan

#### **Abbas Al-Refaie**

Professor, Department of Industrial Engineering University of Jordan Amman, Jordan

#### Dr. Moh'd A. Radaideh

Associate Professor, Department of Software Engineering Jordan University of Science and Technology Irbid, Jordan

#### Rashid Rushdi Rashid Abu-Dawwas

Professor, Department of Mathematics Yarmouk University Irbid, Jordan

#### Dr. Ahmad T. Al-Taani

Professor, Artificial Intelligence Yarmouk University Irbid, Jordan

#### Mahmoud Z. Mistarihi

Associate Professor, Department of Industrial Engineering Yarmouk University Irbid, Jordan

#### Khalid Mohamed Oqlah Nahar

Associate Professor, Artificial intelligence and Machine learning Yarmouk University Irbid, Jordan

#### **Mohammad Al-Jarrah**

Professor, computer Engineering Yarmouk University Irbid, Jordan













#### Dr. Lazhar BENAISSA

Associate Professor, Department of foreign languages University Mohamed Khider Biskra Biskra, Algeria

#### Ramzi Bader Albadarneh

Associate Professor, Department of Mathematics The Hashemite University Zarqa, Jordan

#### Dr. Khaled Hyasat

Associate Professor, Department of Basic Sciences Philadelphia University Amman, Jordan

#### Hitham M. Tlilan

Professor, Mechanical Engineering Hashemite University Zarqa, Jordan

#### Dr. Abdullah M. Abdul-Jabbar

Professor, Department of Mathematics Salahaddin University-Erbil Erbil, Iraq

#### Dr. Rachit Garg

Deputy Secretary, School of Computer Science & Engineering Lovely Professional University Phagwara, Punjab

#### **ENGR. MARIZEN B. CONTRERAS**

Associate Professor, College of Engineering University of Batangas Batangas City, Philippines

#### **6. SCIENTIFIC PROGRAM**

Day 1	Session	Topic
	Technical Session I A	Electrical Engineering &
Technical Session I		other related areas
Technical Session 1	<b>Technical Session I B</b>	Computer Engineering &
		Mechanical
Technical Session II	Technical Session II	Computer, Civil
		Engineering, and related
		areas

#### 6.1 Technical Sessions Technical Session I-A

Artificial intelligence and lean in the service of patient comfort: Modelling Healthcare process (Hospital 4.0)

Presentation by Rihab EL SABROUTY

Sustainable solutions to treat water for drinking purposes

Presentation by Zohre Kurt

A Software Architecture for an Integrator Payment Service Provider System

Presentation by Mustafa Andac Ayvaz

Papers and Queueing Management Replaced by AI and Voice Banking in a New Branchless World: A Revolutionized Finance Era

Presentation by Yoser Gadhoum

**Bibliometric Analysis on Authentic Leadership** 

Presentation by Masturina Mahazir

A software Architecture for Web-based front-end credit card payment with a webservice call

Presentation by Mevlude Nur Cakiroglu

Analyze the influence of liquidity on profitability and Stock Returns (using a group of Jordanian companies working in the Food& Beverage sector ("F&B") listed in Amman Stock Exchange).

Presentation by Fouzan Algaisi

Security Impact of Cross-site Scripting Vulnerabilities on Web Applications and Their Awareness

Presentation by Hydara Isatou

**SQL Injection Vulnerabilities: Understanding Eliminating Approaches in Web Applications** 

Presentation by Najla'a Ateeq muhammad Draib

Explorative study on how Technology as an agent can be a dumb or absorbing entity; a case study on EPR of UK hospitals

Presentation by Firas Masri

Detection of depression in text posts on Facebook profiles of Spanish-speaking users

Presentation by Eduardo Joel Paucarpura Sánchez

The Matching of Blended Learning Curriculum for the Development of New Generation: A Systematic Literature Review

Presentation by Fazilah Razali

#### **Technical Session I-B**

Cable Tensions Optimization in Cable Driven Parallel Robot for 3D structural printing *Presentation by Suad Alhaj Mustafa* 

**Influence of Adopting Value Engineering on the Structural Cost of Construction Projects in Jordan** 

Presentation by Bayan A. Alquwaider

Assessment of ambient particulate matter and trace gases in the Makassar urban area South Sulawesi Province of Indonesia

Presentation by Nani Anggraini

Technical approaches to improve Producing Oil from a Depletion Drive reservoir **Presentation by Zheno Kareem Ahmed** 

Influence of New Student Admission Selection Test Results on Student Learning Achievement of Vocational Program Field Science Technology and Social Humaniora

Presentation By Setya Chendra wibawa

Decision Making Support System for Medical Devices' Maintenance Using Fine-tuned kNN Classifier

Presentation by Akram AlSukker

Simultaneous determination of heavy metals in competitive aqueous solutions and contaminated soil systems

Presentation by Timothy Anemana

**Community Engagement: A Continuing Partnership for Grassroots** 

Presentation by Rowena T. Albao

The Miracles that Stopped: A Case Study on the Quality Journey of an Organization - Before and After the Pandemic

Presentation by Gayathri

Different solutions of a vibro-impact system with non-ideal excitation based on the misalignment of frequency response curves obtained by a numerical and analytical analysis

Presentation by Dzanko Hajradinovic

**CRM** and Loyalty Solution in a Payment Company

Presentation by Kerem Korkut

Recognition of emotions by analyzing facial expressions from user experience evaluation videos

Presentation by Luis Alfredo Hernandez Perez

#### **Technical Session II**

**COVID-19 CASE FORECAST with LSTM Deep Learning Approach: The Case of Turkey** 

Presentation By Ipek Atik

Improvement of Jaw Crusher Design by DEM & FEA Approach

Presentation By Ömer AKIN

**Body Area Networking And Live Location Tracking System In War Fields** 

Presentation By Salma Fauzia

A Software Architecture for a Crowd-Sourcing Based Usability Testing Tool **Presentation By Tahir Enes Adak** 

Perspectives Of Teachers And Parents On Mathematics Learning In Early Grades Student During School From Home

Presentation By Nia Fatmawati

A Methodology for Product Recommendation Based on User-System Interaction Data on Computer Systems E-Commerce Web Site

Presentation By Tahir Enes Adak

**Vibration Analysis And Optimization Of Wind Turbine Blade With Composite Materials** 

Presentation By Saeed Ahmed Asiri

An Approach to Machine Learning Workflows for Predicting Purchase Behaviour of Users on Computer Systems Websites

Presentation By Tahir Enes Adak

Comparative forecasting of COVID-19 cases in Turkey with Using Different Deep Learning Methods

Presentation By Ipek Atik

**Experimental Investigation on Hybrid Fibre-Reinforced Concrete Deep Beams** 

Presentation By Sunil K Kulkarni

#### Highlights

#### 6.2 Highlight of Session I-A

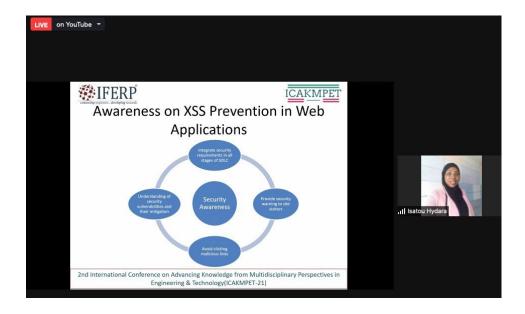
Session I-A of ICAKMPET-2021 consist of 12 presentations. Below attached presentation is more attracted.

**Author Name: Isatou Hydara** 

Title: Security Impact of Cross-site Scripting Vulnerabilities on Web Applications and Their Awareness

#### **Abstract:**

Cross-site scripting (XSS) vulnerabilities are one of the most common and most dangerous security vulnerabilities that affect web applications for the last two decades as well as the mobile versions of web applications more recently. They can seriously affect web application users with the loss of their personal information to attackers. In addition, other security problems can occur including denial of service attacks, phishing, and exposure to malware and viruses. Most of the previous proposed solutions to cross-site scripting vulnerabilities focused only on the Desktop versions of web applications and not the mobile versions. However, this is changing as more researchers are also including the mobile versions in their proposed solutions. This is because more people are using their mobile phones to access web applications and they face an increasing threat of cross-site scripting attacks and the possibility of being victimized. In this paper, we explore and discuss the security impact that cross-site scripting vulnerabilities have in modern web and mobile applications, and the importance of raising awareness of these vulnerabilities, not only within the technology industry but also to the public.



#### 6.3 Highlight of Session I-B

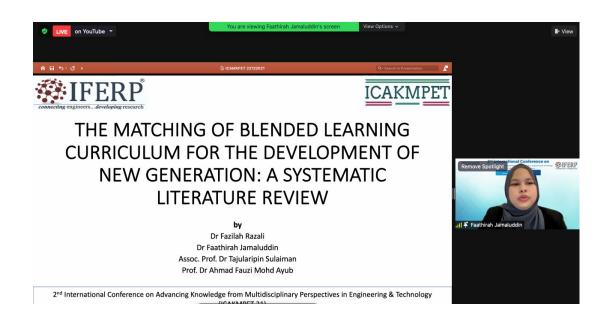
Session I-B of ICAKMPET-2021 consist of 12 presentations. Below attached presentation is more attracted.

Name: Fazilah Razali

Title: The Matching of Blended Learning Curriculum for the Development of New Generation: A Systematic Literature Review

#### **Abstract:**

Blended Learning (BL) is a popular combine practice of online and face-to-face strategy in teaching and learning for encouraging active learning and improving students' academic performance. The transition to the use of blended teaching methods is more drastic when the world is shocked by the COVID-19 pandemic situation, where educational institutions need to implement the teaching transition by integrating online and offline courses throughout the pandemic period. This study conducts a systematic literature review on BL, based on PRISMA (Preferred Reporting Items for Systematic Review and Meta-Analyses) approach, to identify the effect of integration learning style and active learning to enhance blended learning. Web of Science and Scopus were used in the compilation of studies published between 2000 and 2021. Findings indicate that learning style and active learning can enhanced blended learning curriculum in higher education students. This study seeks to contribute to the existing literature on the blended learning especially the effect of learning style and active learning style and active learning by conducting a thorough and unbiased review of previous studies, drawing more general conclusions about the integration of learning style and active learning towards blended learning and providing insights for future research.



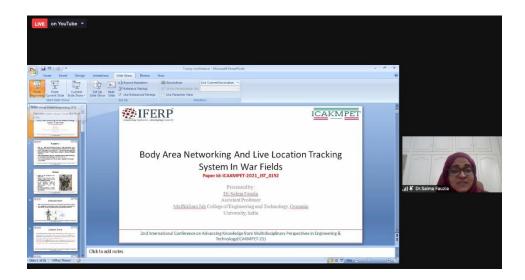
#### 6.4 Highlight of Session II

Name: Salma Fauzia

Title: Body Area Networking And Live Location Tracking System In War Fields

#### **Abstract:**

Security is a top priority for all nations nowadays. Wars are waged over control of territory, water, and the title of most powerful nation. The army, navy, and air force are the three professional uniformed services that make up a country's armies. Soldiers are the foundation of any military force. Soldiers who are involved in combat situations frequently die owing to a lack of medical assistance. On the battlefield, missions or special operations personnel become disoriented and lose communication with the authorities. To address these problems, we created this project, which employs a wireless body area sensor network.(WBANS), such as a temperature sensor or a heartbeat sensor, will keep track of the soldier's health. whenever the need arises We may also track the soldier's exact location using GPS whenever necessary. We can also monitor the ambient condition with an oxygen level sensor, allowing authorities to give necessary services and first aid. Between the soldiers and the base unit, contact is established. Anomalies in the readings of wireless body area sensor networks (WBASNs) are seen as a trigger for GPS to establish a link between the soldier and the base unit, as well as relay the soldier's current location as well as the soldier's health status We tried to implement the basic guarding system for the soldier which is low cost, light weighted, portable and precise device.



#### **6.5 Most Enjoyed Presentations**



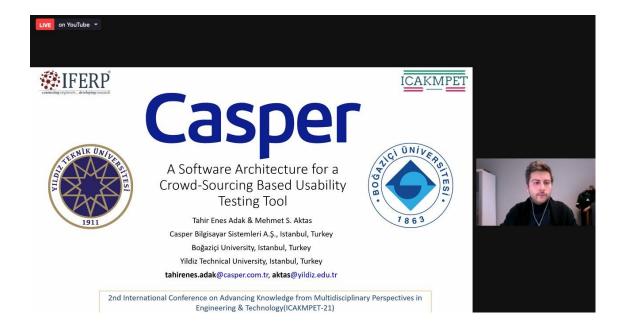
Name: Tahir Enes Adak

Title: A Software Architecture for a Crowd-Sourcing Based Usability

**Testing Tool** 

#### **Abstract**:

Within the scope of this study, we develop a software architecture to enable exploratory and usability tests of smartphones, notebooks, desktop computers, and similar devices to find and fix bugs and errors of software, which run in these mentioned devices. The developed software architecture is based on lambda software architecture. It is designed to enable making usability tests by crowd-sourced data inputs. Due to tests getting run simultaneously with the real-time process and data collection on test user's devices (notebook, desktop, smartphone, etc.), it enables real-time and user-focused testing. The software architecture we developed with complex event processing, batch-processing and streaming-based data processing techniques enables analysis of test data in real-time. We developed a prototype application to prove the efficiency of suggested software architecture while being used in crowd-sourced usability tests. Performance analysis of this prototype application was carried out by taking into account scalability and response-time criteria. Performance analysis results prove that the suggested software architecture is successful.





Name: Mustafa Andac Ayvaz

Title: A Software Architecture for an Integrator Payment Service

Provider System

#### **Abstract**:

When businesses want to pay for the services they offer to their customers in virtual or physical environments with a customer card over a virtual pos, they must make a virtual pos agreement through banks and integrate it into the virtual pos gateway structure of the relevant bank. This situation results in integration and cost efforts. Within the scope of this research, we propose a microservice-based distributed system software architecture that addresses this problem. With the proposed architecture, businesses will only make integration and business agreements with Paycell and position Paycell as a single payment service provider. This way, it will transmit all its payments through the Paycell application. Thus, it will provide both cost and effort savings. The proposed system also provides a Technical integrator service. If the businesses wish, they can also transmit their transactions to a bank they agreed upon through the same integration. This paper discusses implementing this software, which has proven to be modular, scalable, and extendable. Paycell offers a "Mobile Payment" (Direct Carrier Billing) method as an additional alternative to the card payment option with the cooperation of a mobile operator. The card storage service offered by Paycell is also provided together with the proposed solution. In this way, we ensure that the transaction volumes are increased, the customer experience is facilitated, and the structures of the businesses are developed without the need for card storage security requirements in their systems. The system enables end-to-end Business Transaction Management, card information security, revenue sharing, and portal reporting.

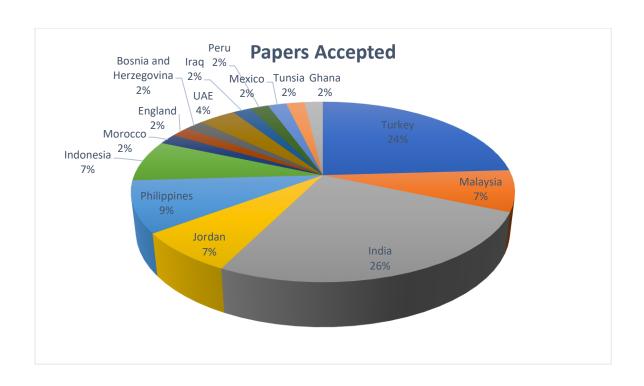


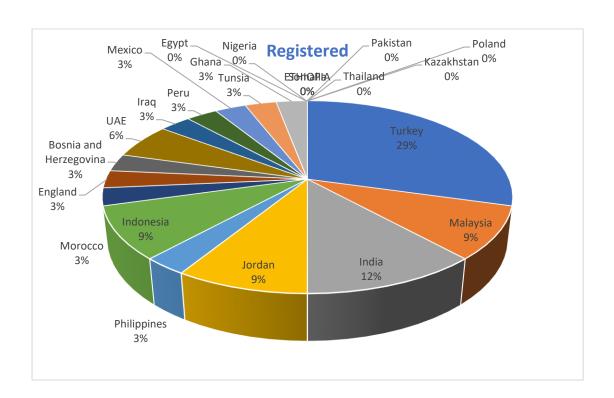
#### 7.SURVEY ANALYSIS

## Papers received based on the Country

Country	Papers	Papers	
	Accepted	Registered	
Turkey	13	10	
Malaysia	4	3	
India	14	4	
Jordan	4	3	
Philippines	5	1	
Indonesia	4	3	
Morocco	1	1	
England	1	1	
Bosnia and	1	1	
Herzegovina	1	1	
UAE	2	2	
Iraq	1	1	
Peru	1	1	
Mexico	1	1	
Tunisia	1	1	
Ghana	1	1	
Egypt	1	0	
Thailand	1	0	
Somalia	1	0	
Nigeria	1	0	
Pakistan	1	0	
Poland	1	0	
Kazakhstan	3	0	
ETHIOPIA	4	0	
Total	66	34	







## 8.VALIDICTORY

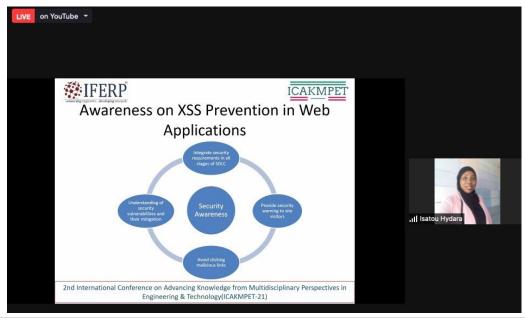
In the Valedictory best paper and best paper Presentation of 2nd International Conference on Advancing Knowledge from Multidisciplinary Perspectives in Engineering & Technology (ICAKMPET-21) was announced

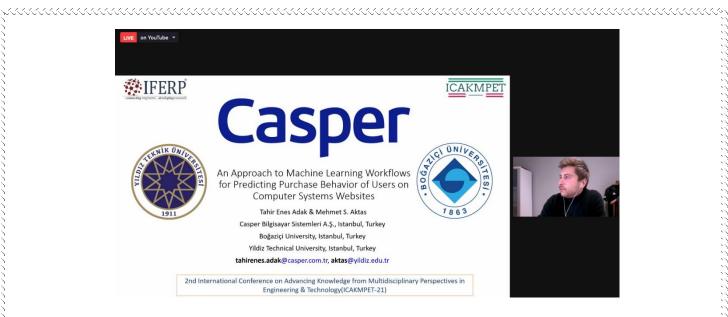
#### Best paper award

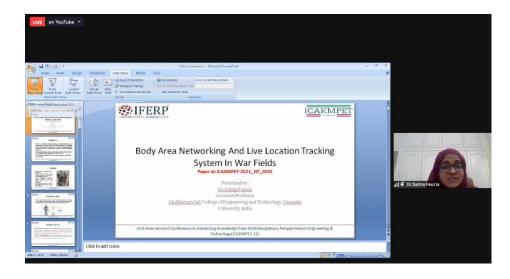
Session	Paper Title	Author Name
Session 1-A	Security Impact of Cross-site Scripting Vulnerabilities on Web Applications and Their Awareness	Hydara Isatou
Session 1-B	Different solutions of a vibro-impact system with non-ideal excitation based on the misalignment of frequency response curves obtained by a numerical and analytical analysis	Dzanko Hajradinovic
Session II	An Approach to Machine Learning Workflows for Predicting Purchase Behavior of Users on Computer Systems Websites	Tahir Enes Adak

#### **Best paper Presentation award**

Session	Paper Title	Author Name
Session 1-A	Explorative study on how Technology as an agent can be a dumb or absorbing entity; a case study on EPR of UK hospitals	Firas Masri
Session 1-B	Decision Making Support System for Medical Devices' Maintenance Using Fine-tuned kNN Classifier	Akram AlSukker
Session II	Body Area Networking And Live Location Tracking System In War Fields	Salma Fauzia









#### **9.VOTE OF THANKS:**

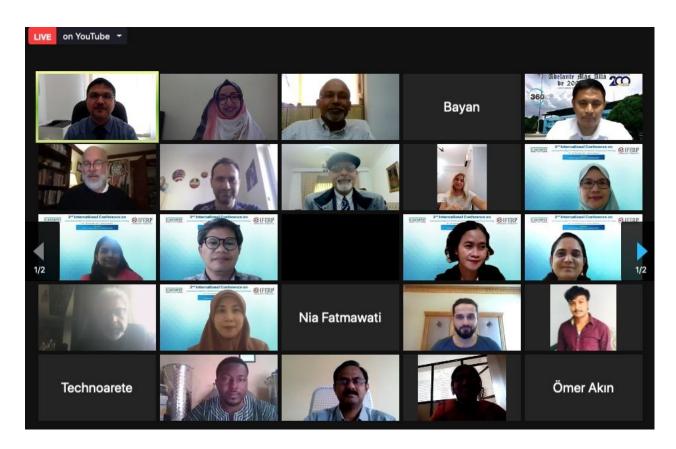
2nd International Conference on Advancing Knowledge from Multidisciplinary Perspectives in Engineering & Technology (ICAKMPET-21) successfully hosted on 22nd December 2021. The conference was organized with a focus on Bringing Engineering and Technology research areas synchronically on an indivisible platform.

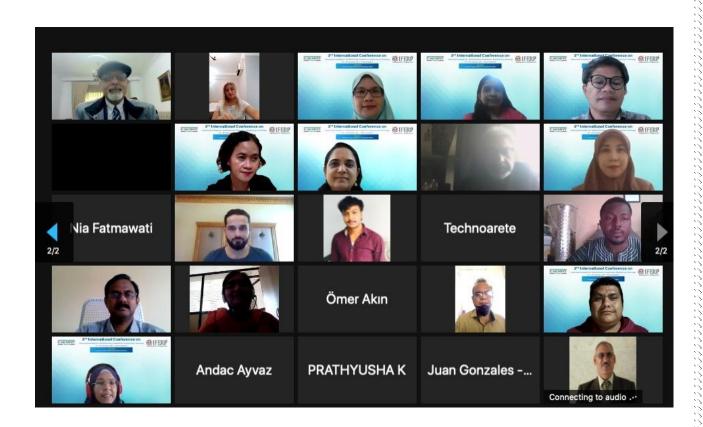
The generous response and active participation of the Organizing Committee Members advisory committee members. we take the opportunity to thank all the speakers, session chairs, delegates and participants for providing their valuable support and time for ICAKMPET-2021.

Organizing Committee would like to thank the Moderator of the conference, and who contributed a lot for the smooth functioning of this event.

congratulates the Best Paper, Best paper Presentation awardees for their outstanding performance in the field of Engineering and technology and appreciates all the participants who put their efforts in presentations & Young Researchers form and sincerely wishes them success in future endeavours. On behalf of IFERP heartily thank all the delegates and students who have contributed to the conference success. Thank you all for participating in our conference.

#### 10. GROUP PHOTO





#### 11.CONCLUSION SUMMARY

ICAKMPET-2021 was a success event organized by IFERP. Thanks to Organization committee members and all participants. This event provided a learning experience to all and shape ourselves to near future. We would like to conclude with Thank you to all.

#### **Our Associates**





















## **Conference Documents**

Click the below link to download the ICAKMPET-21 Poster, Brochure & Proceedings Book

https://drive.google.com/drive/folders/16f6E\_ORa0C-twZUr7\_mT544UBT8V\_gNq?usp=sharing

## **Conference Feedback**

Name :Zheno Kareem Ahmed Email: zheno.ahmed@spu.edu.iq

Contact Number :07740874598

University Name :Sulaimani Polytechnic University

Designation :Lecturer

Country : Iraq

What is your overall evaluation of the conference ? :Yes-definitely

nts :it was more satisfactory but the paper needs to be reviewed before presenting it in the conferenc

What is your rating of the overall effectiveness of the presentations and speakers you heard?: More than satisfactory

Comments :all the presenter and speakers are more active

What is your over all evaluation of the conference organization? :Yes-definitely

Comments :the conference organization was very good, but the papers need to be revised before presenting it in the conference

What aspects of the conference were of more value to you ? :All the steps of doing the conference

What aspects of the conference were of least value to you ? :non-aspects

Please list suggestions for topics and speakers for future conferences. We are interested in the issues you are facing or the presentations you would find most valuable. :topic

petroleum engineering. Speaker;Dr. Hiwa Sdiq from Komar University for since and Technology (KUST) In sulaimani-Iraq

Overall Organization :Very Good

Conference Registrations : Good

Speaker Quality : Good

How did you first learn about the conference ? :via social Media of one of the speaker

Name : Dr. Orabi Al Rawi

Email: orabi.alrawi@uop.edu.jo

Contact Number :00962795021341 University Name : University of Petra

Designation : Faculty member

Country : Jordan

What is your overall evaluation of the conference ? :Yes-definitely

Comments : It was very good

What is your rating of the overall effectiveness of the presentations and speakers you heard ?: No-Never

Comments : Good

What is your over all evaluation of the conference organization?: Yes-definitely

Comments :Very good

What aspects of the conference were of more value to you ?: The organization of the conference

What aspects of the conference were of least value to you ? :The voice of the presenter was sometimes not clear

Please list suggestions for topics and speakers for future conferences. We are interested in the issues you are facing or the presentations you would find most valuable. :- The

selection of topics - Specialties Overall Organization : Very Good

Conference Registrations : Very Good

Speaker Quality : Good

How did you first learn about the conference ? :From Linkedin

Name : Luis Alfredo Hernández Pérez

Email: m20ce038@cenidet.tecnm.mx

Contact Number :9191280404

University Name :Tecnológico Nacional de México campus Centro Nacional de Investigación y Desarrollo Tecnológico Cuernayaca, Morelos, México

Designation :Student

Country : Mexico

What is your overall evaluation of the conference ? :Yes-definitely

Comments :satisfied

What is your rating of the overall effectiveness of the presentations and speakers you heard?: More than satisfactory

Comments :satisfied

What is your over all evaluation of the conference organization?: No-Never

Comments :satisfied

What aspects of the conference were of more value to you? :the research topic

What aspects of the conference were of least value to you?: None of them

Please list suggestions for topics and speakers for future conferences. We are interested in the issues you are facing or the presentations you would find most valuable :artificial Inteligence, new twchnologies

Overall Organization : Fair

Conference Registrations : Fair

How did you first learn about the conference?: by the institution where I am currently pursuing a master's degree in computer science

Name :Nia Fatmawati

Email: fatmawatinia75@gmail.com Contact Number: 081927980004

University Name :Universitas Pendidikan Indonesia

Designation : Primary Education

Country :Indonesia

What is your overall evaluation of the conference ? :Yes-definitely

Comments :-

What is your rating of the overall effectiveness of the presentations and speakers you heard ?: More than satisfactory

Comments :-

What is your over all evaluation of the conference organization?: Yes-definitely

Comments :-

What aspects of the conference were of more value to you? if get information valuable from keynote speakers and friends as presenters from various countries

What aspects of the conference were of least value to you? :nothing

Please list suggestions for topics and speakers for future conferences. We are interested in the issues you are facing or the presentations you would find most valuable. if

interest in education

Overall Organization :Very Good Conference Registrations :Very Good

Speaker Quality : Very Good

How did you first learn about the conference? :The first conference I attended was held by iferp. I like the conference coordinator who is friendly and very helpful, that's what makes me interested in coming back for the next conference. This is the second conference I have attended, which was organized by iferp

Name :Ömer AKIN

Email: oakin@mekaglobal.com Contact Number: 05424561746

University Name : Meka Beton Santralleri A.Ş

Designation : R&D Center Director

Country: Turkey

What is your overall evaluation of the conference ? : Satisfactory

Comments : Good

What is your rating of the overall effectiveness of the presentations and speakers you heard?: No-Never

Comments : Good

What is your over all evaluation of the conference organization?: No-Never

Comments : Good

What aspects of the conference were of more value to you ?: Multidisciplinary aspect

What aspects of the conference were of least value to you ?: None

Please list suggestions for topics and speakers for future conferences. We are interested in the issues you are facing or the presentations you would find most valuable. :Video recordings could be directly presented by organization comitee.

Overall Organization : Good

Conference Registrations : Good

Speaker Quality : Good

How did you first learn about the conference ? :Web

Name :ROWENA T. ALBAO Email :<u>wengtolledoalbao@gmail.com</u>

Contact Number :09319927669

University Name :BICOL STATE COLLEGE OF APPLIED SCIENCES AND TECHNOLOGY

Designation :INSTRUCTOR

Country : Philippines

What is your overall evaluation of the conference ? :Yes-definitely

Comments :It's good to hear practices through researches from other part of the globe.

What is your rating of the overall effectiveness of the presentations and speakers you heard?: More than satisfactory

Comments: Speakers' content and researches were more realistic in terms of technology innovations and development. Its nice getting to know all of these through this conference presentations.

What is your over all evaluation of the conference organization?: Yes-definitely

Comments: Organization of the conference is very good.

What aspects of the conference were of more value to you? : One aspects of the conference which I found more value is a consistent follow up and coordination of the Incharge and for having web site that is responsive and gave immediate response for whatever query.

What aspects of the conference were of least value to you? I suggest that during breakout sessions, moderator should also motivate attendees to aske questions to the presenter.

Please list suggestions for topics and speakers for future conferences. We are interested in the issues you are facing or the presentations you would find most valuable. :Its good to include discussions about publication and statistics (approaches and trends).

Overall Organization :Very Good Conference Registrations :Very Good

Speaker Quality :Very Good

How did you first learn about the conference ? :through social media.

Name : Abu Bakar Md Sultan Email: abakar@upm.edu.my Contact Number :60126636330

University Name : UNIVERSITI PUTRA MALAYSIA

Designation :dr Country : Malaysia

What is your overall evaluation of the conference ? :Yes-definitely

Comments : good

What is your rating of the overall effectiveness of the presentations and speakers you heard?: More than satisfactory

Comments : good

What is your over all evaluation of the conference organization?: Yes-definitely

Comments : good

What aspects of the conference were of more value to you ?: The topic about cs, software

What aspects of the conference were of least value to you ? :Maybe the topic not relevance to my area. Oreall ok

Please list suggestions for topics and speakers for future conferences. We are interested in the issues you are facing or the presentations you would find most valuable. :ok

Overall Organization : Very Good Conference Registrations : Very Good

Speaker Quality : Very Good

How did you first learn about the conference ? : Website

Name : Fouzan Algaisi Email:f.qaisi@aum.edu.jo Contact Number :0795478555

University Name : American University of Madaba (AUM) Madaba - Jordan

Designation: Assistant Professor Banking and Finance Department Faculty of Business and Finance

What is your overall evaluation of the conference ? : Satisfactory

Comments :

What is your rating of the overall effectiveness of the presentations and speakers you heard?: No-Never

Comments :

What is your over all evaluation of the conference organization?: No-Never

Comments :

What aspects of the conference were of more value to you?: The importance of the conference is not only scientific, but the place is important, the acquaintance between the academics is important, the social relations between them are important and the culture acquired is also very important.

What aspects of the conference were of least value to you ? :-

Please list suggestions for topics and speakers for future conferences. We are interested in the issues you are facing or the presentations you would find most valuable. :-

Overall Organization : Good

Conference Registrations : Good

Speaker Quality : Good

How did you first learn about the conference?:by email and WhatsApp

Name :Sattar Yunus

Email:sattar.teknik@umi.ac.id Contact Number :082187010203

University Name :Universitas Muslim Indonesia

Designation :PhD Country :Indonesia

What is your overall evaluation of the conference ? :Yes-definitely

Comments: The Conference on time

What is your rating of the overall effectiveness of the presentations and speakers you heard?: More than satisfactory

Comments : Excellent

What is your over all evaluation of the conference organization?: Yes-definitely

Comments : Very Good

What aspects of the conference were of more value to you? :Many speakers specially keynote speakars are experts and we got knowledges

What aspects of the conference were of least value to you?: There is not, all aspect have a value

Please list suggestions for topics and speakers for future conferences. We are interested in the issues you are facing or the presentations you would find most valuable

Impact of environmental pollution for human life

Overall Organization : Very Good Conference Registrations : Very Good

Speaker Quality : Very Good

How did you first learn about the conference ? : Very valuable experience

Name :Nani Anggraini

Email:nani.anggraini@universitasbosowa.ac.id

Contact Number :6282347976805 University Name :Universitas Bosowa

Designation :Nani Country :Indonesia

What is your overall evaluation of the conference ? : Satisfactory

Comments: Time management of each speaker needs to be considered so that it does not take too long What is your rating of the overall effectiveness of the presentations and speakers you heard?: No-Never

Comments :Time management of each speaker needs to be considered so that it does not take too long

What is your over all evaluation of the conference organization?: No-Never

Comments : good

What aspects of the conference were of more value to you ? :Many topics

What aspects of the conference were of least value to you?: Technology

Please list suggestions for topics and speakers for future conferences. We are interested in the issues you are facing or the presentations you would find most valuable.

:Waste Management

Overall Organization : Good

Conference Registrations : Good

Speaker Quality : Good

How did you first learn about the conference ? : Colleague

- 1. Overall, how was the Conference ?: 8 Star
- 2. After the event, how inspired did you feel ?: 8 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. Hatem Hatef Abdulkadhim Alyasari Altaee

Interesting and entertaining: Mostly

Relevant to you : Mostly

Inspiring: Mostly

Speaker 2 :- Dr. Robert Eberhart

Interesting and entertaining: Mostly

Relevant to you : Mostly

Inspiring : Mostly

Speaker 3 :- Dr. Suman Majumder

Interesting and entertaining : Mostly

Relevant to you : Mostly

Inspiring : Mostly

Speaker 4 :- Dr. Suhail Mohammad Ghouse

Interesting and entertaining: Mostly

Relevant to you : Mostly

Inspiring : Mostly

- 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. Hatem Hatef Abdulkadhim Alyasari Altaee

Interesting and entertaining: Mostly

Relevant to you :Mostly Inspiring :Definitely

Speaker 2 :- Dr. Robert Eberhart

Interesting and entertaining : Definitely

Relevant to you : Definitely

Inspiring: Definitely

Speaker 3 :- Dr. Suman Majumder Interesting and entertaining :Mostly

Relevant to you : Definitely

Inspiring :Definitely

Speaker 4 :- Dr. Suhail Mohammad Ghouse

Interesting and entertaining: Mostly

Relevant to you :Mostly Inspiring :Definitely

- 1. Overall, how was the Conference ?: 7 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. Hatem Hatef Abdulkadhim Alyasari Altaee

Interesting and entertaining :Somewhat

Relevant to you :Somewhat

Inspiring :Somewhat

Speaker 2 :- Dr. Robert Eberhart

Interesting and entertaining :Somewhat

Relevant to you :Somewhat

Inspiring:Somewhat

Speaker 3 :- Dr. Suman Majumder

Interesting and entertaining :Somewhat

Relevant to you : Mostly

Inspiring :Somewhat

Speaker 4 :- Dr. Suhail Mohammad Ghouse

Interesting and entertaining :Somewhat

Relevant to you :Somewhat

Inspiring : Mostly

- 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. Hatem Hatef Abdulkadhim Alyasari Altaee

Interesting and entertaining : Mostly

Relevant to you : Mostly

Inspiring : Mostly

Speaker 2 :- Dr. Robert Eberhart

Interesting and entertaining :Definitely

Relevant to you :Mostly

Inspiring :Definitely

Speaker 3 :- Dr. Suman Majumder

Interesting and entertaining :Mostly

Relevant to you : Mostly

Inspiring: Mostly

Speaker 4 :- Dr. Suhail Mohammad Ghouse

Interesting and entertaining: Mostly

Relevant to you : Mostly

Inspiring: Mostly

- 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. Hatem Hatef Abdulkadhim Alyasari Altaee

Interesting and entertaining : Definitely

Relevant to you : Definitely

Inspiring :Definitely

Speaker 2 :- Dr. Robert Eberhart

Interesting and entertaining : Definitely

Relevant to you : Definitely

Inspiring : Definitely

Speaker 3 :- Dr. Suman Majumder

Interesting and entertaining : Definitely

Relevant to you :Definitely

Inspiring : Definitely

Speaker 4 :- Dr. Suhail Mohammad Ghouse

Interesting and entertaining : Definitely

Relevant to you :Definitely

Inspiring: Definitely

- 1. Overall, how was the Conference ? :9 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. Hatem Hatef Abdulkadhim Alyasari Altaee

Interesting and entertaining: Mostly

Relevant to you :Mostly

Inspiring : Mostly

Speaker 2 :- Dr. Robert Eberhart Interesting and entertaining :Mostly

Relevant to you :Mostly

Inspiring :Mostly

Speaker 3 :- Dr. Suman Majumder Interesting and entertaining :Mostly

Relevant to you : Mostly

Inspiring : Mostly

Speaker 4 :- Dr. Suhail Mohammad Ghouse

Interesting and entertaining: Mostly

Relevant to you :Mostly

Inspiring : Mostly