



**3<sup>RD</sup>** INTERNATIONAL CONFERENCE  
ON EMERGING TRENDS IN  
ENGINEERING, SCIENCES & TECHNOLOGY  
**2018**

PROGRAM **BOOK**

21<sup>ST</sup>- 22<sup>ND</sup> December 2018

Jointly organized by



**IEEE**

**IQRA** **IU**  
UNIVERSITY

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## 1- ABOUT THE CONFERENCE

3rd edition of International Conference on Emerging Trends in Engineering, Sciences & Technology – 2018 will be held at Iqra University, Main Campus, Karachi, Pakistan, where visitors can enjoy a variety of professional and learning activities. The Conference will be having paper presentations from National and International Scientific Community. The main goal of ICEEST-18 is to promote and co-ordinate the exchange of knowledge and publication of technical and scientific literature in the field of Computers, Machine Learning, Communication, Security, Software Engineering, Power Electronics, Control Systems and Robotics.

1st edition of the Conference was jointly organized by Iqra University and Shah Abdul Latif University in 2016, whereas 2nd edition was jointly organized by Iqra University, Mehran University, Universiti Teknologi PETRONAS and Sunway University. These Conferences were sponsored by Higher Education Commission of Pakistan, National and Multinational Organizations. Further, more than 500 participants from academia and industry attended the conferences. The conferences consisted of several plenary and keynote sessions by international speakers (USA, UK, France, Australia, Romania and Malaysia) and eminent national academician/ researchers.

The 3rd edition of the Conference expects to attract more than 500 participants from various National and International Institutions. The ICEEST-18 will consist of regular oral sessions, key notes, tutorials, workshops, exhibitions and poster presentations. In addition, the sessions will provide an opportunity to the participants to exchange ideas with experts of relevant fields.

ICEEST-18 is technically co-sponsored by IEEE and IEEE Karachi Section. All accepted papers will be published on IEEE Xplore.

## 2- COMMITTEE CHAIR

### Patron-in-Chief



**Ms. Erum Asad**



**Mr. Hunaid Hussain Lakhani**

### Patron



**Prof. Dr. Wasim Qazi**

### Conference Chair



**Engr. Prof. Dr. Kamran Raza**

### Conference Co-Chair's



**Dr. Syed Hasan Adil**



**Engr. Dr. Mansoor Ebrahim**



**Mohammad Shahid Shaikh**

### 3- ORGANIZATION COMMITTEE

#### Publication Committee

Aarij Mahmood Hussan

Sophia Ajaz

#### Program & Technical Committee

Rosdiazli B Ibrahim

Lau Sian Lun

Syed Saad Azhar Ali

Muhammad Moinuddin

Ramani Kannan

Chia Wai Chong

Angela Lee

Yau Kok Lim

Lee Yun Li

Ch'ng Sue Inn

Juan Carlos Quiroz Aguilera

Yeong Lee Seng

Lim Tong Ming

Mohamad Naufal B M Saad

Nadeem Qazi

Aamir Saeed Malik

Usman Ahmed

Manzoor Hashmani

Mohammad Shahid Shaikh

Muhammad Shahab Siddiqui

Bhawani Shankar Chowdhry

Tariq Rahim Soomro

#### Tutorials Committee

Muhammad Irfan Anis

Ikram E Khuda

Muhammad Ghazaal

Bisma Hasan

Mehak Usmani

Muhammad Usman

#### Industrial Committee

Nadeem Ahsan

Zubair Ahmed

Sheraz Mohani

Muhammad Khalid

#### Publicity Committee

Israr Ali

Muhammad Raza

Mohammad Ali

Umer Chawla

Tayyab Gul

#### Registration Committee

Asad Latif Awam

Ilyas Essani

Shahzad Karim Khawar

Azeem Aftab

Azfar Ghani

## 4- LIST OF INTERNATIONAL SPEAKERS

- [Dr. Nor Hisham bin Hamid](#)

Associate Professor and Director Nanotechnology Mission Oriented Research  
Universiti Teknologi PETRONAS  
Malaysia

- [Dr. Daniela Gifu](#)

Senior Researcher (CS III) Romanian Academy  
Iasi Branch Institute of Computer Science  
Romania

- [Dr. Kamran Iqbal](#)

Professor of Systems Engineering University of Arkansas  
Little Rock  
Arkansas

- [Dr. Javier Poncela Gonzalez](#)

Associate Dean  
Faculty of Telecommunications (ETSIT) (University of Malaga)  
Spain

- [Dr. Harin Sellahewa](#)

Interim Dean of School of Computing  
University of Buckingham  
Buckingham, UK

- [Dr. Helen Crompton](#)

Associate Professor  
Old Dominion University  
VA, USA

- [Dr. Sergio Pinna](#)

Researcher  
University of California Santa Barbara (UCSB)  
Integrated Photonics Laboratory, USA.

- [Dr. –Ing Tze Ying Sim](#)

Senior Lecturer  
Head of Center of American Education  
Sunway University, Malaysia

## 5- LIST OF NATIONAL SPEAKERS

- **Dr. Jamil Ahmad**

Professor and Vice Chancellor  
Kohat University of Science and technology  
Kohat, Khyber Pakhtunkhwa

- **Dr. Bhawani Shankar Chowdhry**

Meritorious Professor (BPS 22) and Dean  
Faculty of Electrical, Electronics and Computer Engineering  
Mehran University of Engineering & Technology, Jamshoro, Pakistan

- **Dr Muhammad Awais Akhter**

General Manager (Technical)  
Center of Excellence in Science & Applied Technologies  
Government of Pakistan

- **Dr. Tahir Jameel**

General Manager (Technical)  
Center of Excellence in Science & Applied Technologies  
Government of Pakistan

- **Dr. Syed Waqar Ul Qounain Jaffry**

Assistant Professor  
University of the Punjab  
Pakistan

- **Prof. Dr. Pardeep Kumar**

Associate Professor  
Department of Computer Systems Engineering  
QUEST Nawabshah, Pakistan

- **Dr. Tariq Mahmood**

Assistant Professor  
Institute of Business Administration (IBA)  
Karachi, Pakistan

- **Dr. Salman A. Khan**

Associate Professor  
PAF-Karachi Institute of Economics & Technology  
Karachi, Pakistan

- **Dr. Muhammad Atif Tahir**

Professor, Department of Computer Science

National University of Computer & Emerging Sciences (NUCES-FAST)

Karachi, Pakistan

- **Prof. Engr. Dr. Hyder Abbas Musavi**

Dean

Faculty of Engineering, Science and Technology

Indus University



## 6- CONFERENCE PROGRAM

Time	Friday 21 <sup>st</sup> December 1 <sup>st</sup> day
<b>09:00 to 10:00</b>	<b>Registration &amp; Networking</b>
10:05 to 10:20	<b>Venue:</b> EDC Auditorium Commencement of Inaugural Ceremony
10:20 to 10:25	Recitation from The Holy Quran
10:25 to 10:35	<b>Address by</b> Prof. Dr. Wasim Qazi Vice Chancellor, Iqra University
10:35 to 10:45	<b>Address by</b> Chief Guest
10:45 to 10:55	<b>Address by</b> Mohammad Shahid Shaikh Session Chair, IEEE Karachi
10:55 to 11:05	<b>Vote of Thanks by</b> Prof. Dr. Kamran Raza Dean, FEST, Iqra University, Pakistan  Souvenir Distribution
<b>11:15 to 12:00</b>	<b>Hi-Tea</b>
12:00 to 12:30	Venue: EDC Auditorium <b><u>Plenary Speaker I:</u></b>  Title: <b>Challenges in Underwater Acoustic Networks</b> Speaker: <b>Dr. Javier Poncela Gonzalez</b> Affiliation: <b>Associate Dean</b> Faculty of Telecommunications (ETSIT) (University of Malaga), Spain
12:30 to 13:00	<b><u>Plenary Speaker II:</u></b>  Title: <b>Moving Towards Reliability-Centered Maintenance: Condition Based Monitoring as an Example</b> Speaker: <b>Dr. Bhawani Shankar Chowdhry</b> Affiliation: <b>Meritorious Professor (BPS 22) and Dean</b> Faculty of Electrical, Electronics and Computer Engineering Mehran University of Engineering & Technology, Jamshoro, Pakistan

13:00 to 14:45	<b>Lunch and Prayer Break</b>
<b><u>Parallel Session I</u></b>	<b>Venue:</b> Conference Room 1 <b>Session Chair:</b> Dr. Syed Waqar ul Qounain Jaffry, <b>Session Co-Chair:</b> Dr. Irfan Anis
15:00 to 15:30	<b><u>Keynote I</u></b> Title: <b>Conducting Science using Computational Modelling and Simulation</b> Speaker: <b>Dr. Syed Waqar ul Qounain Jaffry</b> Affiliation: <b>Assistant Professor</b> University of The Punjab Lahore, Pakistan
15:30 to 16:30	(PID 52) A simple approach to block incidence of Ultraviolet radiations on PV Module Yusra Tahir, Faisal Khan and Abdul Hameed Memon  (PID 07) An Evaluation of Machine Learning Classifiers and Ensembles for Early Stage Prediction of Lung Cancer M. Imran Faisal, Dr. Saba Bashir, Zain Sikandar Khan and Dr. Farhan Hassan Khan  (PID 09) Forced Vibration Analysis of Rectangular Membranes with Clamped Edges Syed Nabeel Amjad and Nadeem Shafi Khan  (PID 32) Random Network Coding for Secure Packet Transmission in SCADA Networks Sajid Nazir and Mohammad Kaleem
<b><u>Parallel Session II</u></b>	<b>Venue:</b> Conference Room 2 <b>Session Chair:</b> Dr. Tariq Mahmood <b>Session Co-Chair:</b> Dr. Muhammad Zubair Ahmed,
15:00 to 15:30	<b><u>Keynote II</u></b> Title: <b>How Can the Block Chain Technology Aid Big Data Analytics?</b> Speaker: <b>Dr. Tariq Mahmood</b> Affiliation: <b>Assistant Professor</b> Institute of Business Administration (IBA), Karachi, Pakistan.

15:30 to 16:30	<p>(PID 11) Trajectory Tracking Control For Unmanned Aerial Vehicle Jamshaid Zaidi, Hamza Farooq, Zobia Nadeem, Bilal Yousuf Giga, Haris Moshin and Hasher Waseem</p> <p>(PID 28) A Proposed Model for Education System Using Cloud Computing Engr. Ali Ahmed and Huma Ali</p> <p>(PID 30) An Acceptance of Web Based Training System for Continuous Professional Development. A Case Study of Provincial Institute of Teacher Education Sindh, Nawabshah Nisar Ahmed Dahri, Dr. Muhammad Saleem Vighio and Dr.Mir Hassan Dahri</p> <p>(PID 33) Live View Car Surveillance System Malik Tayyab, Nasir Khan and Anas Ahmad Chaudhary</p>
17:00 to 18:00	<p><b>Day-1 Session Closing</b> Address by Chief Guest</p>
18:30to 22:00	<p><b>Karachi City Tour &amp; Dinner</b></p>

Time	Saturday 22 <sup>nd</sup> December 2 <sup>nd</sup> day
08:45 to 9:30	<b>Registration &amp; Networking</b>
09:30 to 10:15	Venue: EDC Auditorium  <b><u>Plenary Speaker I:</u></b> Title: <b>Integrated Photonics for LIDAR applications</b> Speaker: <b>Dr. Sergio Pinna</b> Affiliation: <b>Researcher</b> University of California Santa Barbara (UCSB), Integrated Photonics Laboratory, USA.
10:15 to 11:00	<b><u>Plenary Speaker II:</u></b> Title: <b>Online Tools to Support Novice Programming: A Systematic Review</b> Speaker: <b>Dr. –Ing Tze Ying Sim</b> Affiliation: <b>Senior Lecturer</b> Head of Center of American Education Sunway University, Malaysia
11:00 to 12:00	Tea Break
<b><u>Parallel Session I</u></b>	<b>Venue:</b> Conference Room 1 <b>Session Chair:</b> Dr. Salman A. Khan, <b>Session Co-Chair:</b> Prof. Dr. Atif Tahir
12:15 to 12:35	<b><u>Keynote I</u></b>  Title: <b>Used of Evolutionary and Swarm Intelligence Algorithms for Wind farm Layout Design: Current Status and Challenges</b> Speaker: <b>Dr. Salman A. Khan</b> Affiliation: <b>Associate Professor</b> PAF-Karachi Institute of Economics & Technology. Karachi, Pakistan
12:35 to 12:55	Title: <b>Computer Vision Techniques for Cancer Classification</b> Speaker: <b>Prof. Dr. Atif Tahir</b> Affiliation: <b>Professor,</b> Department of Computer Science National University of Computer & Emerging Sciences (NUCES- FAST) Karachi, Pakistan

13:00 to 14:00	<p>(PID 34) Code Improvements Towards Implementing HEVC Decoder Adeel Israr, Sajid Nazir and Mohammad Kaleem</p> <p>(PID 40) Spatio-Temporal RBF Neural Networks Shujaat Khan, Jawwad Ahmad, Alishba Sadiq, Imran Naseem and M. Moinuddin</p> <p>(PID 36) Comparative Throughput Analysis of Wireless EEG Network Based On IEEE 802.11 &amp; IEEE 802.15.4 M. Khizar Abbas, M. Ghazaal Syed, Dr. Bilal M. Khan and Dr. Syed Sajjad Haider Zaidi</p> <p>(PID 38) Prevention of Educational Institutions from Terrorist Attacks using IoTs Waleej Haider, Muhammad Nouman, Syed Noman Hasany, Haris Ahmed and M. Asad Abbasi</p> <p>(PID 59) Predicting Market Performance with Hybrid Model Mehak Usmani, Syed Hasan Adil, Mansoor Ebrahim, Kamran Raza</p>
<b><u>Parallel Session II</u></b>	<p><b>Venue:</b> Conference Room 2  <b>Session Chair:</b> Prof. Dr. Sayed Hyder Abbas Musavi,  <b>Session Co-Chair:</b> Dr. Pardeep Kumar</p>
12:15 to 12:35	<p><b><u>Keynote II</u></b></p> <p>Title: Towards the Evolution of 7G Wireless Communication Systems  Speaker: Prof. Dr. Sayed Hyder Abbas Musavi  Affiliation: Dean, Faculty of Engineering, Sciences &amp; Technology,  Indus University, Karachi, Pakistan</p>
12:35 to 12:55	<p>Title: The IoT Based Future Internet  Speaker: Dr. Pardeep Kumar  Affiliation: Associate Professor,  Department of Computer Systems Engineering,  QUEST Nawabshah, Pakistan.</p>
13:00 to 14:00	<p>(PID 44) Chaotic Time Series Prediction using Spatio-Temporal RBF Neural Networks Alishba Sadiq, Muhammad Sohail Ibrahim, Muhammad Usman, Muhammad Zubair, Shujaat Khan</p> <p>(PID 50) Efficient Video Encryption using Lightweight Cryptography Algorithm Syed Saiq Hussain, Muhammad Sohail Ibrahim, Syed Zain Mir, Sajid Yasin, Muhammad Kashif Majeed and Azfar Ghani</p>

	<p>(PID 41) Design &amp; Development of Fault Detection &amp; Location System for Electrical Distribution Network Syed Sheraz Ul Hasan Mohani, Shoaib Ameer, Atif Jabbar and Abid Yazdani</p> <p>(PID 42) SOA vs MSOA Comparative Analysis Syed Safdar Hussain Qadri and Aarij Mahmood Hussaan</p>
<b><u>Parallel Session III</u></b>	<p><b>Venue:</b> Conference Room 3 <b>Session Chair:</b> Dr. Sajjad Hussain Rizvi, <b>Session Co-Chair:</b> Dr. Muhammad Raza</p>
12.15 to 14:00	<p><b><u>Keynote III</u></b></p> <p>Title: <b>New Technologies, New Learning Opportunities: Mobile Technologies Expanding Educational Opportunities</b> Speaker: <b>Dr. Helen Crompton</b> Affiliation: <b>Professor</b> Instructional Technology at Old Dominion University Virginia USA.</p> <p>(PID 54) Design and Implementation Challenges of Energy Saving Projects in Underdeveloped countries and their perspective solutions in the light of project management principles - A Review Waqar Tariq, Mohammad Lutfi Bin Othman, Izhal B Abdul Halin, Noor Izzri Bin Abdul Wahab and Salihudin Bin Hj Hassim</p> <p>(PID 6) An Expert System for Calculating Zakat in Islam Ahmad Mohammed Almousa, Mohammed Waled Alesmael, Ahmed Khalid Aljabr, Muhammad Nasir Mumtaz Bhutta and Qazi Mudassar Ilyas</p> <p>(PID 62) Machine Learning and Stress Assessment: A Review Syed Faraz, Syed Hasan Adil</p> <p>(PID 58) Comparative Analysis: Conventional Video Codecs v/s Compressive Sensing Video Codecs Mansoor Ebrahim, Syed Hasan Adil, Tayyab Gul, Kamran Raza</p> <p>(PID 57) Detection and Analysis of Driver Drowsiness Nurul Aisyah Binti Amirudin, Naufal Saad, Syed Saad Azhar Ali, Syed Hasan Adil</p>

14:00 to 15:00	<b>Lunch and Prayer Break</b>
15:00 to 17:00	<b>Special Keynote Sessions</b>
17:00 to 17:45	<b>Conference Closing Ceremony Address by Chief Guest</b>
17:45 to 18:30	<b>Certificate Distribution Ceremony</b>
19:30 to 20:30	<b>Conference Dinner</b>