

# Conference Program

Day 1 - 12 November 2018

9:30 AM - 10:30 AM	<b>Opening: Welcome to ICE CUBE 2018 with Governor</b>			
10:30 AM - 11:30 AM	<b>Keynote with Shoab Ahmad Khan</b>			
11:35 AM - 12:05 PM	<b>Coffee/Tea</b>			
12:10 PM - 1:45 PM	<b>Orange Hall</b>	<b>Green Hall</b>	<b>Pink Hall</b>	<b>Tranining Hall</b>
	Talk: Zartash Afzal Uzmi CIS-I	Talk: Fahad Dogar CTS-I	DSP Talk: Ali Ahmed	Workshops
1:50 PM - 3:00 PM	<b>Lunch break</b>			
3:15 PM - 5:00 PM	SE Talk: Maryam Mustafa	EE-I	Talk: Ihsan Ayyub Qazi CIS-II	Workshops

## Conference Program

### Day 2 - 13 November 2018

9:00 AM - 10:00 AM	<b>Keynote with Ashfaq Khokhar</b>			
10:15 AM - 11:15 AM	<b>Keynote with Mojtaba Joodaki</b>			
11:20 AM - 11:50 AM	<b>Coffee/Tea</b>			
	Orange Hall	Green Hall	Pink Hall	Traning Hall
12:00 PM - 1:45 PM	SEC	ELEC-I	EE-II Talk: B.S. Chowdhry	Workshops
1:50 PM - 3:00 PM	<b>Lunch break</b>			
3:15 PM - 5:00 PM	Talk: Jin Huang CTS-II	EE-III	ELEC-II	Workshops

<b>Day 1: Computing and Intelligent Systems (CIS - I)</b>		
<b>Venue:</b>	<b>Orange Hall</b>	
<b>Time:</b>	<b>12:10 PM - 1:45 PM</b>	
<b>Paper #</b>	<b>Authors</b>	<b>Title</b>
131	Yousuf Khan, Abdul Samad Khan, Umer Iftikhar Mir, Surjeet Kumar, Naqeeb Ullah, Haider Ali, Muhammad Luqman Sarangzai and Muhammad Junaid Sultan	Mathematical Modeling of Photonic Crystal based Optical Filters using Machine Learning
46	Saba Latif, Aniq Rehman and Nazir Zafar	Modeling of Sewerage System Linking UML, Automata and TLA+
35	Naeem Ahmed Mahoto, Nazish Aslam Brohi and Abdul Hafeez Babar	Developing an Effective Predictive Model for Clinical Dataset
108	Ali Kumail, Junaid Akhtar and Muhammad Adil Raja	Neural Correlates of Belief

<b>Day 1: Communication Theory and Systems (CTS - I)</b>		
<b>Venue:</b>	<b>Green Hall</b>	
<b>Time:</b>	<b>12:10 PM - 1:45 PM</b>	
<b>Paper #</b>	<b>Authors</b>	<b>Title</b>
39	Wahaj Abbas Awan, Haleema , Abir Zaidi, Niamat Hussain, Samreen Khalid and Abdennaceur Baghdad	Characterization of dual band MIMO antenna for 25 GHz and 50 GHz applications
28	Muhammad Ali Butt, Svetlana Khonina and N.L Kazanskiy	Plasmonic refractive index sensor based on M-I-M square ring resonator
106	Stanislav Krasnov, Sergey Volotovskiy and Mukhammad Butt	Differentiation of the laser pulse in a waveguide with a Bragg grating
7	Muhammad Asadullah and Khalil Ullah	Real Time Acquisition and Analysis of Dual Channel EMG Signal

<b>Day 1: Digital Signal Processing (DSP)</b>		
<b>Venue:</b>	<b>Pink Hall</b>	
<b>Time:</b>	<b>12:10 PM - 1:45 PM</b>	
<b>Paper #</b>	<b>Authors</b>	<b>Title</b>
14	Muhammad Zawish, Asad Ali Siyal, Kainat Ahmed, Aiman Khalil and Sheeraz Memon	Brain Tumor Segmentation in MRI Images using Chan Vese Technique in MATLAB
83	Sadia Murawwat and Anisa Batool	FECG Extraction Using Adaptive LMS
50	Zanib Tahira and Hafiz Asif	Effect of Averaging Techniques on PCA Algorithm and its Performance Evaluation in Face Recognition Applications

<b>Day 1: Software Engineering (SE)</b>		
<b>Venue:</b>	<b>Orange Hall</b>	

<b>Time:</b>	<b>03:15 PM - 5:00 PM</b>	
<b>Paper #</b>	<b>Authors</b>	<b>Title</b>
20	Muhammad Azeem Akbar, Nasrullah ., Mohammad Shameem, Jawad Ahmad, Amna Maqbool and Khizer Abbas	Investigation of Project Administration related challenging factors of Requirements Change Management in global software development: A systematic literature review
19	Muhammad Azeem Akbar, Nasrullah ., Muhammad Shafiq, Jawad Ahmad, Muhammad Mateen and Muhammad Tanveer Riaz	AZ-Model of software requirements change management in global software development
38	Atif Rafiq, Qadeer Ahmad, Adil Raja and Shams Ur Rahman	On the Experience of Wrapping Beagle Puppy for Octave
110	Afza Kazmi, Anam Fatima, Arslan Idris and Shujaat Hussain	Adaptive Usage Statistical Testing for 3D Gaming Applications

<b>Day 1: Electronic Devices: Design and Applications (EE-I)</b>		
<b>Venue:</b>	<b>Green Hall</b>	
<b>Time:</b>	<b>03:15 PM - 5:00 PM</b>	
<b>Paper #</b>	<b>Authors</b>	<b>Title</b>
130	Mustansar Shah, Rahat Ali and Fahad Malik	Control of Ball and Beam with LQR Control Scheme using Flatness Based Approach
41	Andrey Ustinov and Ali Butt	Properties of axial caustic under autofocusing of Airy-like and chirped beams
91	Vladimir Podlipnov, Nikolay Ivliev, Dmitry Nesterenko and Ali Butt	Nonlinear effects in photoinduced nanomovement of carbazole-based azo-polymers
129	Muhammad Saqib, Muhammad Mubasher Saleem, Saif Ullah Awan and Masood Ur Rehman	Design, Modeling and Parametric Analysis of Chevron Shaped Electrothermal Actuator Using Low Cost MetalMUMPS Fabrication Process
136	Shakila Shaheen, Muhammad Mubasher Saleem and Syed Muhammad Tahir Zaidi	Design, FEM Modeling and Optimization of an Electrostatic RF-MEMS Varactor

<b>Day 1: Computing and Intelligent Systems (CIS - II)</b>		
<b>Venue:</b>	<b>Pink Hall</b>	
<b>Time:</b>	<b>03:15 PM - 5:00 PM</b>	
<b>Paper #</b>	<b>Authors</b>	<b>Title</b>
66	Aamir Wali, Hafiz Abdul Rehman, Zanish Aslam, Mushtahsan Basit, Zeeshan Ali Khan and Salman Hameed	Automated Text Positioning Algorithm for Urdu Newspaper Headlines
72	Waqas Ahmed and Mohammad Haroon Yousaf	Robust Activity Recognition Model via Motion Templates
116	Umair Ahmed, Ghulam Rasool, Saqib Zafar and Hafiz Farhan Maqbool	Fuzzy Rule Based Diagnostic System to Detect the Lung Cancer
127	Zain Nadeem, Abdul Samad, Zulkafil Abbas and Janzaib Masood	A Transfer Learning based approach for Pakistani Traffic-sign Recognition; using ConvNets
119	Rahila Umer, Teo Susnjak, Anuradha Mathrani and Suriadi Suriadi	A learning analytics approach: Using online weekly student engagement data to make predictions on student performance

**Day 2: Networks and Distributed Systems,  
Information and Communication Security, (SEC)  
Information Systems and Services**

<b>Venue:</b>	<b>Orange Hall</b>	
<b>Time:</b>	<b>12:00 PM - 1:45 PM</b>	
<b>Paper #</b>	<b>Authors</b>	<b>Title</b>
92	Khawaja Muhammad Ali and Majid Khan	A new way of evaluating and comparing the robustness of LSB and DWT Techniques for Image Steganography
99	Irshad Hussain, Aamir Rashid, Ibrar Ullah, N. Khan and M. Riaz	Reliable and Secure Advanced Metering Infrastructure for Smart Grid Network
36	Fawad Ali, Dr. Saba Bashir and Dr. Farhan Hassan Khan	Application Development Models for Mobile Cloud Computing
13	Muhammad Taimoor Khan and Shehzad Khalid	Trends and Challenges in Lifelong Machine Learning Topic Models

**Day 2: Electrical Energy (ELEC - I)**

<b>Venue:</b>	<b>Green Hall</b>	
<b>Time:</b>	<b>12:00 PM - 1:45 PM</b>	
<b>Paper #</b>	<b>Authors</b>	<b>Title</b>
74	Mamoona Khalid, Shehzar Shahzad Sheikh and Abdul Kashif Janjua	Performance Validation of Electric Vehicle's Battery Management System under state of charge estimation for lithium-ion Battery
122	Kamran Zeb, Saif Ul Islam, Waqar Uddin, Imran Khan, Muhammad Adil Khan, Sajid Ali, Tiago Davi Curi Busarello and Hee Je Kim	An Overview of Transformerless Inverters for Grid Connected Photovoltaic System
76	Mujtaba Hussain, Faisal Khan, Sajid Ali, Naseer Khan, Naveed Ur Rehman and Noman Ullah	Fault Analysis of Dual Rotor Permanent Magnet Flux Switching Machine
55	Muhammad Afzal Khan, Faisal Khan, Lutf Ur Rahman and Areej Fatima	Analysis and Electromagnetic Noise suppression of three-phase Squirrel Cage Induction Motor
93	Waqas Ali, Haroon Farooq, Ata Ur Rehman, Qasim Awais, Mohsin Jamil and Ali Noman	Design Considerations of Stand-Alone Solar Photovoltaic Systems

**Day 2: Electronic Devices: Design and Applications (EE-II)**

<b>Venue:</b>	<b>Pink Hall</b>	
<b>Time:</b>	<b>12:00 PM - 1:45 PM</b>	
<b>Paper #</b>	<b>Authors</b>	<b>Title</b>
95	Malik Muhammad Zaid and Muhammad Usama Malik	Single and Three-Phase Cascaded Switch-Ladder Multilevel Inverter Using Novel and ANDED PWM technique
29	Malik Muhammad Zaid and Muhammad Usama Malik	Single and Three Phase Switch Ladder Multilevel Inverter
85	Zainullah Khan, Hairbyar Bugti and Ali Sheraz	Single Dimensional Generalized Kalman Filter
111	Tanzila Younas, Nasreen Bano, Mehtab Khalid, Ashar Ahmed and Mohammad Noman	An Experimental Study of Modelling and Fabrication of an Autonomous Solar Parabolic Trough Collector

<b>Day 2: Communication Theory and Systems (CTS - II)</b>		
<b>Venue:</b>	Orange Hall	
<b>Time:</b>	03:15 PM - 5:00 PM	
Paper #	Authors	Title
60	Muhammad Bilal, Faisal Ahmad Khan, Faizullah Khan and Tayyab Shabbir	A Novel Semi-Elliptical UWB Antenna with Parasitic Sinusoids
103	Juliza Jamaludin and Jemmy Mohd Rohani	Cyber-Physical System (CPS): State of the Art
30	Mostafa E. Youssef, Shahzad Nasim, Sarwar Wasi, Ulfat Khisal and Dr Arslan Khan	Efficient Cooperative Spectrum Detection in Cognitive Radio Systems Using Wavelet Fusion
33	Zakir Hussain, Asim Ur Rehman Khan, Haider Mehdi, Syed Muhammad Atif Saleem, Muhammad Arif and Shabbir Hussain	Effects of Interference on Device-to-Device Communication

<b>Day 2: Electronic Devices: Design and Applications (EE-III)</b>		
<b>Venue:</b>	Green Hall	
<b>Time:</b>	03:15 PM - 5:00 PM	
Paper #	Authors	Title
137	Wajih Ullah Baig, Waqas Ellahi, Kashif Sardar, Mohsin Raza and Kamran Ali	Empirical Evaluation of Fingerprints Matching Strategies Based on Minutia Cylinder-Code
94	Faizan Ahmad Khattak	Objective Function Formulation Strategies for Harmonic Elimination in Multilevel Inverters
48	Waqar Uddin, Sadam Hussian, Kamran Zeb and Zahid Ullah	Effect of Arm Inductor on Harmonic Reduction in Modular Multilevel Converter
90	Usman Hameed, Husnain Sadiq, Hassan Abdullah Khalid, Muhammad Umer Khan and Mazhar Ali	Investigation of Zero Sequence Injection Method For Balancing of Multi-level Cascaded-H bridge inverter
27	Malik Muhammad Zaid, Muhammad Usama Malik, Muhammad Sibtain and Muhammad Moosa	Efficient and Low-Cost Power Quality Analyzer

<b>Day 2: Electrical Energy (ELEC - II)</b>		
<b>Venue:</b>	Pink Hall	
<b>Time:</b>	03:15 PM - 5:00 PM	
Paper #	Authors	Title
121	Qais Ali, Hassan Zahid Butt and Syed Ali Abbas Kazmi	Integration of Electric Vehicles as Smart Loads for Demand Side Management in Medium Voltage Distribution Network
63	Syed Muhammad Furqan, Dr Ali Nasir, Engr.Arslan Ashraf, Dr Tabraiz Aslam Shami and Nabeel Khalid	Design And Implementation of Virtual Synchronous Machine
81	Sahar Zafar, Husnain Sadiq, Beenish Javaid and Hassan Abdullah Khalid	On PQ Control of BESS in Grid-Connected Mode and Frequency Control in Islanded-Mode for Micro-Grid Application
58	Husnain Sadiq, Usman Hameed, Muhammad Nauman Rafique, Syed Ahmed Hassan Raza and Dr. Kashif Imran	Impact of PV Penetration on Short Circuit Current of Radial Distributed Feeder and Existing Power System Protection of NUST
87	Kashif Liaqat, Arshad Ali and Ali Nawaz	Design and Simulation of Molten Salt Based Solar Thermal Power Plant using LFR Technology in Pakistan