

2018, IEEE International Conference on Power, Energy and Smart Grid (ICPESG), Schedule

Monday, April 9th, 2018				
Inaugural Session (University Auditorium)				
09:30	Registration of Participants			
10:30	Guests to be Seated			
10:55	Arrival of the Chief Guest			
11:00	National Anthem followed by AJ&K Anthem			
11:05	Recitation from The Holy Quran			
11:10	Naat-a-Rasool-a-Maqbool (S.A.W)			
11:15	Conference Introduction by Organizing Secretary			
11:20	Conference Perspective by the Chairman Department of Electrical (Power) Engineering			
11:25	Welcome by the Dean Faculty of Engineering & Technology			
11:30	Remarks/ Addresses	Conference Chair (Prof. Dr. Sohail Aftab Qureshi)		
11:35		Chair IEEE Islamabad Section (Prof. Dr. Amir Qayyum)		
11:40		Prof. Dr. Klaus Leifer, Sweden		
11:45		Dr. Nidhal Carla Bouaynaya, USA		
11:50		Vice Chancellor MUST (Prof. Dr. Habib ur Rehman, S. I.)		
12:00		Guest of Honour		
12:10		Chief Guest		
12:20 – 12:45		Refreshment and Opening Ceremony of Poster Session		
Main Session - I: 12:45 – 14:15				
(University Auditorium)				
Session Chair: Prof. Dr. Suhail Aftab Qureshi, Co-Chair: Engr. Muhammad Waris				
Session Coordinators: Dr. Hassan Mujtaba Jafri, Dr. Anzar Mahmood				
12:45 – 13:15 Keynote Speech I	Prof. Klaus Leifer (<i>Chair Professor in Engineering Sciences, Uppsala University, Sweden</i>) Topic: Improving the Efficiency of Energy Materials through Spectroscopic Analysis at Atomic and Nanoscale			
13:15 – 13:45 Keynote Speech II	Dr. Nidhal Carla Bouaynaya (<i>Associate Professor and Graduate Coordinator, Department of Electrical & Computer Engineering, Rowan University, USA</i>) Topic: <i>How Can Deep Learning Create a Smarter Grid?</i>			
13:45 – 14: 20	Lunch Break			
Main Session- II: 14:20 - 15:30				
University Auditorium				
Session Chair: Dr. Nidhal Carla Bouaynaya, Co-Chair: Dr. Riaz Moghal				
Session Coordinators: Dr. Sajjad Manzoor, Engr. Faheem Ashiq				
14:20 – 14:50 Keynote Speech III	Prof. Mahmood Nagrial (<i>Chair Professor in School of Computing, Engineering & Mathematics, Western Sydney University, Sydney, Australia</i>) Topic: <i>New Developments in Electric Motors and Drives</i>			
14:50 – 15:10 Invited Talk-I	Dr. Rizwan Raza (<i>COMSATS, Lahore</i>) Topic: <i>The Current Energy Crises and The Role of Clean Energy Devices</i>			
15:10 – 15:30 Invited Talk-II	Dr. Amir Razzaq (<i>COMSATS, Lahore</i>) Topic : <i>Ultrafast all Polymer Paper based Batteries</i>			
Parallel Session-I (Oral Presentation) 15:30 – 17:45				
Room G01 Mechanical Block				
Session Chair: Dr. Sohail Razzaq				
Session Coordinators: Engr. Attique Baig, Engr. Anila Kousar				
Sr. No.	Time Slot	Paper ID	Authors	Paper Title
1.	15:30 – 15: 45	8	Sohaib Manzoor, Syed Muhammad Abrar Akber, Muhammad Ilyas Menhas,	An SDN Enhanced Load Balancing Mechanism for a Multi-Controller WiFi Network

			Muhammad Imran, Muhammad Sajid, Hassan Talal and Usama Samad	
2.	15:45 – 16:00	20	F. Alam, Z. Ullah, A. Majid, J. Saleem and A. Haider	Design of High Frequency (MHz) Planar Pot-Core Transformer
3.	16:00 – 16:15	24	Muhammad Sohail Sulemani, Abdul Majid, Faisal Khan, Naseer Khan and Nasir Ali	Effect of Nanoparticles on breakdown, Aging and other Properties of Vegetable oil
4.	16:15 – 16:30	28	Saima Gull, Abdullah Saeed, Rizwan Ali, Muhammad Farhan Khan and Muhammad Ali Jamshed	Analysis of Refractivity guide for Multiple Cities of Pakistan to Improve forecasts in Signal Strength
Tea Break (16:30 – 16:45)				
5.	16:45– 17:00	29	Mujtaba Ali and Muhmammad Asghar Saqib	Transient Analysis of a Distribution Transformer using ATP-EMTP
6.	17:00 – 17:15	51	Asad Waqar, Zeeshan Khurshid, Jehanzeb Ahmad, Muhammad Aamir, Muneeb Yaqoob and Imtiaz Alam	Modeling and Simulation of Phasor Measurement Unit (PMU) for Early Fault Detection in Interconnected Two-Area Network
7.	17:15 – 17:30	52	Ishtiaq Hussain, Faisal Khan, Usman Zafar, Naseer Ahmad and Nasir Iqbal	Cogging Torque Reduction of Flux-Switching Permanent Magnet Machine with Overlapping Windings
8.	17:30 – 17:45	53	Sajjad Durrani, Husnain Arif, Ehtisham Ali, Asad Ali, Shahid Khan and Hazrat Ali	A Smart Framework for Power Distribution and Load Balancing using Arduino
Parallel Session-II (Oral Presentation) 15:30 – 17:45				
Room G02 Mechanical Block				
Session Chair: Dr. Ilyas Minhas				
Session Coordinators: Engr. Zafar Ali Khan, Engr. Adil Amin				
Sr. No.	Time Slot	Paper ID	Authors	Paper Title
1.	15:30 – 15:45	54	Sajid Ul Haq, Bilal Arif, Asif Khan and Junaid Ahmed	Automatic Three Phase Load Balancing System by Using Fast Switching Relay in Three Phase Distribution System
2.	15: 45 – 16: 00	145	Samra Ishaq, Faisal Khan, Naseer Ahmad, Wasiq Ullah and Khizer Ayaz	Analytical Modeling of Low Cost Single Phase Wound Field Flux Switching Machine
3.	16: 00 – 16:15	66	Muhammad Waseem, Laraib Saeed, Muhammad Yasir Ali Khan, Jawad Saleem and Abdul Majid	A Multi Input Multi Output Bidirectional DC-DC Boost Converter with Backup Battery Port
4.	16:15 – 16:30	68	Babar Azeem, Z. Ullah, S. M. Ali and Aun Haider	Levenberg-Marquardt SMC control of Grid Tied Doubly Fed Induction Generator (DFIG) using FRT Schemes under Symmetrical Fault
Tea Break (16:30 – 16:45)				
5.	16: 45– 17: 00	73	Jan Shair, Muhammad Abdul Basit and Rabiah Badar	Damping Low Frequency Oscillations in an HVDC System Using Neuro-Fuzzy SMC
6.	17:00 – 17:15	76	Hasan Erteza Gelani, Faizan Dastgeer, Muhammad Umar, Jafar Hussain, Rao	Economic viability of in-house DC system in Pakistan
7.	17:15– 17: 30	77	Ejaz Ahmad, Ateeq Ur Rehman, Owais Khan, Muhammad Haseeb and Nihad Ali	Back-stepping control design for two-wheeled self-balancing robot

8.	17:30– 17:45	89	Ahsan Raza Khan	Day Ahead Load Forecasting for IESCO using Artificial Neural Network and Bagged Regression Tree
Parallel Session-III (Oral Presentation) 15:30 – 17:45				
University Auditorium				
Session Chair: Dr. Mehboob Alam				
Session Coordinators: Engr. Shafaq Ejaz, Engr. Shahbaz Baig				
Sr. No.	Time Slot	Paper ID	Authors	Paper Title
1.	15:30 – 15: 45	91	Muhammad Awais, Muhammad Babar Rasheed, Muhammad Zahid Iqbal and Muhammad Usman	Multiple User Based Residential Energy Management Scheme for Smart Homes
2.	15: 45 – 16: 00	94	Rabia Rauf Abdul Rauf, Faisal Riaz Riaz and Muaz Niazi	Computational intelligence in context of autonomous vehicle modeling: A survey
3.	16:00 – 16:15	99	Sameer Sabir, Qudrat Khan, Muhammad Saleem and Abdul Khaliq	An integral sliding mode based robust voltage tracking control of three phase inverter
4.	16:15 – 16:30	103	M. S Hasan, Muhammad Iftikhar Khan, Zamran Rabeel, Muhammad Usman	Design and Fabrication of Indoor Solar Thermal Cooker using Therminole
Tea Break (16:30 – 16:45)				
5.	16:45– 17:00	104	Mubeen Sabir and Muhammad Amir Khalil	Centroid based tracking of a moving light source
6.	17:00 – 17:15	114	Naveed Khan	Failure of Modern Hydro Alternator Windings Insulation and Their Root Causes
7.	17:15– 17:30	118	Rida Fatima, Aneeque Ahmed Mir, Abdul Kashif and Hassan Abdullah Khalid	Testing Study of Commercially Available Lithium-Ion Battery Cell for Electric Vehicle
8.	17:30– 17:45	123	Hamza Ahmad Raza, Sara Sultan, Shomaz Ul Haq, Abdul Kashif Janjua, Abid Hussain and Abeer Bashir	Modelling of 1 MW Solar Thermal Tower Power Plant using TRNSYS
20 00 – 22 00 Conference Dinner at Grand Regency Hotel (Invited Guests Only)				
Tuesday, April 10th, 2018				
Main Session III, 09:00 – 10:30				
University Auditorium				
Session Chair: Prof. Klaus Leifer, Co-Chair: Prof. Anwar Khitab				
Session Coordinators: Dr. Muhammad Riaz, Engr. Muhammad Usman Zafar				
09:00 – 09:30 Keynote Speech IV	Prof. Muhammad Khawar Islam (<i>Professor in Electrical Engineering, Taibah University, Kingdom of Saudi Arabia.</i>) Topic: <i>Secure Optical Communication using Chaos</i>			
09:30 – 10:00 Invited Talk-III	Prof. Ahmad Hussain (<i>SZABIST, Karachi</i>) Topic: <i>Energy Conservation Strategies and Peak Loads Management in Severe Climate Countries</i>			
10:00 – 10:30 Keynote Speech V	Dr. Ling Wang (<i>Associate Professor, Department of Automation School of Mechatronic Engineering and Automation, Shanghai University (SHU), China</i>) Topic: <i>Metaheuristic Approaches in Exploring Smart and Optimized Solutions for Enhancing Energy Efficiency</i>			
10:30- 11:30	Tea Break and Poster Session			

Main Session IV, 11:30 – 14:15				
University Auditorium				
Session Chair: Dr. Ling Wang, Co-Chair: Engr. Muhammad Shabbir Mirza				
Session Coordinators: Dr. Naeem Iqbal, Engr. Rab Nawaz				
11:30 – 12:00 Invited Talk-IV	Dr. Nadeem Javaid (<i>COMSATS, Islamabad</i>) Topic: <i>Towards dynamic coordination among home appliances using multi-objective energy optimization for demand side management in smart buildings</i>			
12:00 – 12:30 Keynote Speech VI	Dr. Azhar Fakhar ud Din (<i>Researcher, Alexander Von Humboldt Research Fellow, Dept. of Physics, Univ. of Konstanz, Germany</i>) Topic: <i>Nanostructured solar cells for future energy generation</i>			
Parallel Session-IV (Oral Presentations) 12:30 – 14:15				
Room G05, Mechanical Block				
Session Chair: Dr. Yousaf Ali				
Session Coordinators: Engr. Muhammad Usman Bashir, Engr. Hassan Talal				
Sr. No.	Time Slot	Paper ID	Authors	Paper Title
1.	12:30 – 12: 45	126	Sana Zaheer, Yusra Rauf, Fizzah Beig, Hira Haider and Samiya Zafar	Design of STATCOM with a Novel Approach to the Trigger Circuit, Using Numerical Analysis
2.	12:45 – 13:00	128	M Junaid Afzal, Saqlain Ahmad, M Awais Arshad and Syed Ali Abbas Kazmi	Voltage Improvement of Loop Configured Distribution Networks with DGs & FACTS Devices
3.	13:00 – 13:15	136	Sidra Shabir and Syed Yasser Arafat	An image intends a message: A brief survey on image description generation
4.	13:15 – 13:30	137	Muhammad Saqib Ali, Muhammad Kamal Ahmad, Muhammad Farooq Umar and Syed Muhammad Raza Kazmi	Comparision of Non-Isolated Converter Topologies for Maximization of Energy Yield of Photovoltaic Energy Conversion System
5.	13:30 – 13:45	138	Muhammad Farooq Umar, Muhammad Noman Akbar and Syed Muhammad Raza Kazmi	Design and Simulation of a 3 Phase Induction Motor drive based on Indirect Rotor Field Orientation using MATLAB Simulink tool
6.	13:45 – 14:00	143	Yasir Mehmood, Naila Aziz, Hina Iqbal and Waseem Shahzad	PSO-based Clustering Techniques to Solve Multimodal Optimization Problems: A Survey
7.	14:00 – 14:15	144	Abeera Khan and Muhammad Mohsin Aman	Investigation of the effects of critical incident energy parameters using ETAP to reduce arc flash hazards
8.	14:15 – 14:30	61	Ubaid ur Rehman	Real Time Controlling Algorithm for Vehicle to Grid System under Price Uncertainties
Parallel Session-V (Oral Presentations) 12:30 – 14:30				
University Auditorium				
Session Chair: Dr. Muhammad Raza Kazmi				
Session Coordinators: Engr. Jabbar Aziz Baig, Engr. Usman Mussadiq				
Sr. No.	Time Slot	Paper ID	Authors	Paper Title
1.	12:30 – 12:45	146	Khalil Yousaf, Tahir Izhar, Tariq Kamal, Muhammad Danish, Affan Razzaq and Muhammad Huzaifa Qasmi	Micro Hydro Power Plant Dummy Load Controller
2.	12:45 – 13:00	148	Rehan Nawaz, Muhammad Awais Shahid, Ijaz Mansoor	Machine Learning based False Data Injection In Smart Grid

			Qureshi and Muhammad Habib Mahmood	
3.	13:00 – 13:15	160	Zafar A. Khan and Dilan Jayaweera	Approach for Forecasting Smart Customer Demand With Significant Energy Demand Variability
4.	13:15 – 13:30	164	Muhammad Usman, Adil Amin, Muhammad Munir Azam and Hazlie Bin Mokhlis	Optimal Under Voltage Load Shedding Scheme for a Distribution Network Using EPSO Algorithm
5.	13:30 – 13:45	167	Kamran Hafeez, Muhammad Dilshad Sabir, Zeeshan Najam and Muneeb Ullah Anjum	Risk Management of Overhead Electric Power Lines
6.	13:45 – 14:00	5	Khursheed Sabeel, Anila Kousar, Adil Amin, Muhammad Usman, Mamoon Akbar	Prospects of Smart Grid in Azad Jammu and Kashmir
7.	14:00 – 14:15	64	Maryam Wasim, Mukhtar Ullah and Jamshed Iqbal	Taxi Model of Unmanned Aerial Vehicle: Formulation and Simulation
8.	14:15 – 14:30	132	Umair Ayub and Syed Atif Moqurrab	Predicting Crop Diseases Using Data Mining Approaches: Classification
14:30 – 15:00		Lunch break		
15:00 – 15:30		Poster Session		
15:30 – 17:00		Certificates and Awards Distribution Ceremony		