



Capital University of Science and Technology, Islamabad

16th INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES (ICET- 2021) ONLINE DECEMBER 22- 23rd, 2021

Day 1 (December 22, 2021)			
<u>Time</u>		<u>Activity</u>	
09:00-09:25		MS Teams Meeting starts and participants will Join	
INAUGURAL SESSION (Channel A)			
09:30-09:35	Recitation	Ms. Ameena Abdul Rehman	
09:35-09:45	Welcome Address	Dr. Noor M. Khan (General Chair)	
09:45-10:40	Keynote Speech 1	“ Research Directives in Emerging Technologies ” by Prof. Dr. Shoaib Ahmed Khan	
Channel A Automation and Controls		Channel B Big Data Analytics	
TECHNICAL SESSION 1 Technical Experts Team Chair: Dr. Aamir Iqbal Bhatti Co-Chair: Dr. Fazal ur Rehman		TECHNICAL SESSION 2 Technical Experts Team Chair: Dr. Nayyer Masood Co-Chair: Dr. Shahid Iqbal Malik	
10:40-11:00	A Novel Model Driven Approach for Trajectory-Based Technique of Autonomous Vehicle Route Prediction [436]	10:40-11:00	A Comparative Study Between Regression Algorithms to Visualize and Analyze the Scalability of Large-Scale Graphs in Big Data [444]
11:00-11:20	Speed Control of Brushless DC Motor with Oustaloup Fractional-Order Proportional Integral Derivative FOPID [439]	11:00-11:20	Urdu Miner: An Application for Urdu Text Mining [346]
11:20-11:40	Study of Performance Enhancement Using Soft Sliding Mode and Synergetic Controller for Multilevel Grid Tied Inverter [413]	11:20-11:40	Optimal Control of PV System to Extract Maximum Power Under Non-Uniform Environmental Conditions [324]
11:40-12:00	Robust Control Design for 3 Degree of Freedom Fully Actuated Upper Limb Exoskeleton [381]	11:40-12:00	Urdu language-based Assistance App for the Blind and Visually Impaired People [350]



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12:00-01:00	Tutorial 1: Oracle Cloud Infrastructure (OCI) by Mr. Assad Saeed, Enterprise Architect Oracle. (Channel A)		
01:00 – 02:00	Lunch Break		
Channel A Electrical Power Systems		Channel B Artificial Intelligence	
TECHNICAL SESSION 3 Technical Experts Team Chair: Dr. Muhammad Ashraf Co-Chair: Dr. Umer Amir Khan		TECHNICAL SESSION 4 Technical Experts Team Chair: Dr. Muhammad Tahir Awan Co-Chair: Dr. Syeda Mariam Muzammil	
02:20-02:40	Real Time Comparative Analysis of Induction Generator Using Stand Alone (Capacitor Excitation) Scheme and Grid Connected Scheme under Different Load Scenarios [345]	02:20-02:40	Identification of Paddy Leaf Diseases Using a Supervised Neural Network [442]
02:40-03:00	A Comparative Study of Different Modified Incremental Conductance MPPT Algorithms Under Very Fast-Changing Atmospheric Conditions for Solar Charging Station [342]	02:40-03:00	Identification of Leaf Diseases in Potato Crop Using Deep Convolutional Neural Networks (DCNNs) [426]
03:00-03:20	Fabrication of Three-Phase Automatic Transfer Switching System with Reduced Switching Time [393]	03:00-03:20	Holistic Based Plant Identification Using Deep Learning [349]
03:20-03:40	Tea Break		
03:40-04:00	A Generalized Modeling and Analysis for Transformer Parameterization [405]	03:40-04:00	Improved Hybrid Grey Wolf Optimizer Sine Cosine Algorithm (IHGWOSCA) Trained Artificial Neural Network (ANN) for Classification [449]
04:00-04:20	Loss Analysis of Full bridge LLC Resonant Converter with Wide Input Range Using Si and SiC Switches [335]	04:00-04:20	Short Term Power Forecasting of Wind Energy System using Deep Neural Network (DNN) Trained by a Novel Meta-Heuristic Optimization Algorithm [323]
04:20-04:40	On Improving the Voltage Stability of Three Phase Inverter using D-Q Control System [397]	04:20-04:40	BirdView Retina-Net: Small-Scale Object Detector for Unmanned Aerial Vehicles [390]
04:40	Conclusion of Day 1		



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Day 2 (December 23, 2021)			
09:00-09:30		Joining of Teams and Program Presentation	
Channel A Microwave and Communication Systems TECHNICAL SESSION 5 Technical Experts Team Chair: Dr. Noor Muhammad Khan Co-Chair: Dr. Muhammad Tahir Awan		Channel B IOT and Intelligent Systems TECHNICAL SESSION 6 Technical Experts Team Chair: Dr. Aamer Nadeem Co-Chair: Dr. Abdul Basit Siddiqui	
09:30-09:50	RSSI based Trilateration Technique to Localize Nodes in Underwater Wireless Sensor Networks Through Optical Communication [305]	09:30-09:50	A GUI Based Approach to Detect Energy Bugs in Android Applications [910]
09:50-10:10	Four-Element 8-Port Dual-band MIMO Antenna System for 5G Mobile Communication [332]	09:50-10:10	IoT Based Smart Power Quality Monitoring and Electricity Theft Detection System [434]
10:10-10:30	CPW-Fed Three-Arm Archimedean Spiral Antenna for X-band Applications [445]	10:10-10:30	Monitoring, Tracking and Diagnosing Dengue Fever Using Smartphone, GPS and Machine Learning [376]
10:30-10:40	Tea Break		
10:40-11:00	Design of a Reduced Side Lobe Level Slotted Waveguide Array [446]	10:40-11:00	Improving the Efficiency of Transmission Line by Using 48-Pulse Smart Power Flow Controller [456]
11:00-11:20	Design of a Wideband Reflectarray Element for Dual Band Operation in 5G Communications [447]	11:00-11:20	An Effective Nature Inspired Approach for the Estimation of Software Development Cost [421]
11:20-11:40	Polarization Independent Ultra-wide Band Absorber for Ku, K, and Ka Band Applications [388]	11:20-11:40	Appliance Scheduling in Smart Homes Using JAYA Based Optimization Algorithm [441]
11:40-12:40	Tutorial 2: Fundamentals of Smart Grids by Dr. Syed Ali Abbass Kazmi, Assistant Professor, U.S.-Pakistan Center for Advanced Studies in Energy (Channel A)		
12:40-01:40	Lunch /Prayer Break		



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Channel A Smart Energy Systems		Channel B Computer Vision and Machine Learning	
TECHNICAL SESSION 7 Technical Experts Team Chair: Dr. Umer Amir Khan Co-Chair: Dr. Muhammad Ashraf		TECHNICAL SESSION 8 Technical Experts Team Chair: Dr. Aamer Nadeem Co-Chair: Dr. Nadeem Anjum	
01:40-02:00	Energy Management System in Residential Sector with Renewable Energy Source Under Demand Response Consideration [450]	01:40-02:00	A Systematic Literature Review on Crop-Yield Prediction Using Machine Learning [440]
02:00-02:20	A Review on Novel Techniques Used in Demand Side Management (DSM) [317]	02:00-02:20	Low Resolution Face Recognition Using Enhanced SRGANs Generated Images [427]
02:20-02:40	Consumer Energy Management in Residential Distribution Power System Considering Consumer's Privacy [378]	02:20-02:40	Visible to Thermal Image Synthesis Using a Shallow Light Weight Pyramid Network [466]
02:40-03:00	An Upgraded Voltage Stability Index based Approach for Multiple DG Placement in Mesh Distribution System Across Multiple Horizons [428]	02:40-03:00	Performance Analysis of Machine Learning Techniques for Load Forecasting [319]
CLOSING CEREMONY (Channel A)			
03:00-03:05	Recitation	Ms. Aameena Abdul Rehman	
03:05-03:15	Positions Announcement	Dr. M. Abdul Qadir (Organizing Chair)	
03:15-04:15	Keynote Speech 2	“Research and Innovation for Women Empowerment to Support Sustainable Development Goals” by Prof. Dr. Celia Shehnaz, SMIEEE, Fellow IEB.	
04:15-04:30	Vote of Thanks	Dr. M. Mansoor Ahmed (Co-Patron)	
Conclusion			