



VCIPECH 2020
Virtual Conference on Innovative Applications of Computational Intelligence on Power Energy
and Control with their impact on Humanity
6th-7th November, 2020



Session Report

Session: 1A		Computational Intelligence and Application [CIA]	07.11.2020 @ 10:00 AM
Session Keynote detail	Dr. Thuy Le Professor & Department Chair San José State University California, USA [Title: The Future of AI Hardware Technology and Its Market]		

Session Chair-I Dr. Anoop Jain Assistant Professor IIT Jodhpur India
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Session Chair-II Dr. Faisal Jalil [Mob.: +917827974661] Assistant Professor KIET Ghaziabad
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Session Coordinator Mr. Ameer Faisal [Mob.: +919310879505] Assistant Professor KIET Ghaziabad

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Papers for presentation: 08			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>I-01</td><td>Stock Market Analysis Using Python</td></tr> <tr><td>I-03</td><td>Home automation using IOT and Raspberry Pi</td></tr> <tr><td>I-04</td><td>IOT Based Traffic Management System</td></tr> <tr><td>I-06</td><td>A novel fuzzy-based approach of grading performance</td></tr> <tr><td>I-07</td><td>Rust detection in large metal structure by CNN</td></tr> <tr><td>I-09</td><td>Deep Learning Technique for Detection of COVID-19 by using Multiclass Classification</td></tr> <tr><td>I-10</td><td>A New Efficient Swarm-based Routing Protocol for MANET Exploiting DRAGONFLY with HONEY BEE</td></tr> <tr><td>I-11</td><td>Breast cancer prediction using Machine Learning-A review</td></tr> </table>	I-01	Stock Market Analysis Using Python	I-03	Home automation using IOT and Raspberry Pi	I-04	IOT Based Traffic Management System	I-06	A novel fuzzy-based approach of grading performance	I-07	Rust detection in large metal structure by CNN	I-09	Deep Learning Technique for Detection of COVID-19 by using Multiclass Classification	I-10	A New Efficient Swarm-based Routing Protocol for MANET Exploiting DRAGONFLY with HONEY BEE	I-11	Breast cancer prediction using Machine Learning-A review
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Session: 1B		Computational Intelligence and Application [CIA]	07.11.2020 @ 10:00 AM
Session Keynote detail	Dr. Vivek De Intel Fellow, IEEE Fellow Intel Corporation Portland [Title: Attack-Resistant Energy-Efficient SoC for Smart & Secure IoT]		

Session Chair-I Dr. Naveen Kr. Sharma Assistant Professor IKG-PTU, Kapurthala India

Session Chair-II Mr. Sartaz Ahmad [Mob.: +919582209390] Associate Professor KIET Ghaziabad
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Session Coordinator Mr. Rajeev Kumar [Mob.: +919015437886] Assistant Professor KIET Ghaziabad

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I-25	Breast Cancer Prediction Using Machine Learning Techniques														
I-26	Smart fuzzy logic traffic light controller														

Session: 2		Control Systems and Applications (CSA)	07.11.2020 @ 10:00 AM
Session Keynote detail	Dr. Phuc Duc Hong Bui Associate Professor University of Tulsa USA [Title: Modelling and Observation of a Fabric-Reinforced Inflatable Soft Robot]		

Session Chair-I Dr. Ravindra Singh Scientist G, Director DPA DRDO India

Session Chair-II Dr. Shariz Ansari [Mob.: +917838134655] Assistant Professor KIET Ghaziabad

Session Coordinator Ms. Swati [Mob.: +919015778333] Assistant Professor KIET Ghaziabad
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Papers for presentation : 06	II-07	A Review Paper on Drones and Implementation of a low-cost follow me quadcopter	
	II-08	Speed Control Of Bldc Motor With Neural Controller	
	II-09	Control of a Fractional Order System via Adaptive Backstepping Method	
	IV-04	The Anomalous Hall Effect: Literature review and new paradigms	
	III-12	Congestion Management in a Restructured Power Market Using FACTS	
	I-02	IOT based Automatic Irrigation System	

Session: 3 A		Power Electronics Drives and Electromechanical Energy Conversion (PED)	06.11.2020 @ 02:00 PM
Session Keynote detail	Dr. Saad Mekhilef Professor University of Malaya Malaysia [Title: Role of power electronics in providing a sustainable energy supply]		

Session Chair-I Dr. Mukul Kumar Gupta Assistant Professor UPES Dehradun INDIA

Session Coordinator Dr. Brijesh Singh [Mob.: +918377825935] Associate Professor KIET Ghaziabad
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Session Coordinator Mr. Varun Sharma [Mob.: +917500267810] Assistant Professor KIET Ghaziabad

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Papers for presentation : 05	III-01	Power Quality Improvement Of Der Using Power Electronics Devices	
	III-04	An impactful procedure of Noise Filtering with high boost filter recovery of fine details	
	III-05	Application of Power Converters and Common Mode Voltage Reduction Techniques in DFIG based WECS: A Review	
	III-06	Hydrogen fuel cell vehicle	
	V-05	Performance Improvement of PV Module using Power Converters	

Session: 3 B		Power Electronics Drives and Electromechanical Energy Conversion (PED)	06.11.2020 @ 02:00 PM
Session Keynote detail	Dr. Ishak Aris Professor Universiti Putra Malaysia Malaysia [Title: Challenges, Research and Business Opportunities in Sustainable Smart Mobility]		

Session Chair-I Dr. Bhavesh K. Chauhan Dean AKTU Lucknow Professor & Director BBDNITM Lucknow	Session Chair-II Dr. Yatendra Chaturvedi [Mob.: +916397488715] Professor KIET Ghaziabad	Session Coordinator Mr. Anil Kumar [Mob.: +919457713134] Assistant Professor KIET Ghaziabad
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Papers for presentation : 05	III-07	A SUBSTANTIAL TECHNICAL REVIEW ON APPLICATIONS OF CUSTOM POWER DEVICES USED IN POWER NETWORKS	
	III-08	Novel Hybrid Intelligent Secured Cloud Internet of Things Based Disease Prediction and Diagnosis	
	V-01	PV System Based DC-DC Converter for Variations in the Load Demand, Irradiance, and Temperature	
	IV-14	Stability Enhancement of a Multimachine Power System using a Hybrid PSO-BFOA based PV-STATCOM	
	IV-15	A review for renewable energy generation analysis and comparison of India with other countries	

Session: 4		Power System Technology (PST)	06.11.2020 @ 02:00 PM
Session Keynote detail	Dr. Patrick Wheeler Professor University of Nottingham UK [Title: Technology Progress and Challenges for Transportation Electrification]		

Session Chair-I Dr. Atma Ram Gupta Assistant Professor NIT Kurukshetra India	Session Chair-II Dr. Ramesh Singh [Mob.: +919716000576] Assistant Professor KIET Ghaziabad Session Coordinator	Mr. Ankit Singhal [Mob.: +917900268243] Assistant Professor KIET Ghaziabad
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Papers for presentation : 08	IV-01	Simulink model for Reactive Power Estimation in Different Class of Static Loads connected with Squirrel Cage Induction Generator.	
	IV-02	Improvement of Power Quality in Grid Side Converter	
	IV-03	Real-Time Monitoring of Power System using PSO	
	IV-05	Energy Audit on Academic Building and its Conservation	
	IV-07	A Review paper on Investigation & Optimization of Hybrid Model for an Isolated Area	
	IV-09	POWER TRANSMISSION AND DISTRIBUTION LOSSES AND WAYS TO REDUCE THEM	
	IV-10	Review on Electric Power Market in India	
	IV-12	Optimal Power Generation Scheduling in Power Network using Soft Computing Techniques	

Session: 5		Applied Technologies in Renewable Energy and Smart Grids (RES)	07.11.2020 @ 10:00 AM
Session Keynote detail	Dr. R C Bansal Professor University of Sharjah UAE [Title: Renewable Energy Integration]		

Session Chair-I Dr. Sanjay Agarwal Associate Professor IGNOU Delhi
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Session Chair-II Dr. Surendra K. Tripathi [Mob: +919873905027] Associate Professor KIET Ghaziabad

Session Coordinator Mr. Anmol Gupta [Mob.: +919359104079] Assistant Professor KIET Ghaziabad
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Papers for presentation : 07	V-02	Simulation of PV Array using Perturb and Observe MPPT Algorithm
	V-14	Impact of Reconfiguration of Solar PV Array Supplying a DC Motor Load
	V-15	Photovoltaic Reverse Osmosis Desalination Plant: An Analytical Application of the Solar Energy
	V-18	Issues With Distributed Energy Resources With Deeper Penetration Of Renewable Energy Sources: A Review
	V-19	Energy Conservation and Analysis on Sustainable Energy Development using HOMER - Review
	IV-13	Review Paper on Wireless Power Transmission
	III-02	Comparative study of Multiphase and Three phase Induction Motor

Session: 6		Emerging Trends in On-Chip Communications (OCC)	06.11.2020 @ 2:00 PM
Session Keynote detail	Dr. Cher Ming Tan Director Center of reliability science and technology Chang Gung University Taiwan [Title: Maintenance 4.0 – Data Analytic in Maintenance]		

Session Chair-I Dr. Anup Kumar Singh JTO, BSNL Pune
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Session Chair-II Dr. Ruchika Singh [Mob.: +919811427595] Associate Professor KIET Ghaziabad

Session Coordinator Ms. Sheetal [Mob.: +919654853792] Assistant Professor KIET Ghaziabad
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Papers for presentation : 05	VI-03	Analysis of finding optimum numbers of attributes of any transaction to identify anomaly with accuracy of 95% or above
	VI-05	Aperture Coupled Multiband Microstrip Patch Antenna with Four Strip Hybrid Structure
	VI-07	Design Simplification of SOI MEMS based trenchless comb type capacitive accelerometer for FEM analysis
	I-12	QR CODE TECHNIQUES FOR SMART SHOPPING
	I-24	Neuro Fuzzy Inference System for Flood Hazard Mapping

Session: 7		Recent Technological Developments in VLSI Design and Tool Automation (VDT)	06.11.2020 @ 2:00 PM
Session Keynote detail	Dr. Alvaro Rocha Professor University of Lisbon Portugal [Title: Telemedicine in Maturity Models]		

Session Chair-I Dr. Ketan J. Raut Assistant Professor VIIT, Pune India
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Session Chair-II Dr. Brajesh Kumar Tiwari [Mob.: +919999297600] Associate Professor KIET Ghaziabad
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Session Coordinator Mr. Alok Kumar Pandey [Mob.: +918266882690] Assistant Professor KIET Ghaziabad
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Papers for presentation : 05	VII-02	The Benefits and Health Hazards of 5G	
	VII-04	The review paper on winds of indian MST radar	
	VII-05	Virtual Mouse Control Using Hand Class Gesture	
	I-23	Testing and Monitoring Neuro-Fuzzy Mechanism for Respiratory Illness	
	I-05	Cloud Computing	

Session: 8		Measurement, Automation and Sensing Technology (MAS)	06.11.2020 @ 2:00 PM
Session Keynote detail	Dr. Adarsh Kumar Pandey Associate Professor Sunway University Malaysia [Title: Indoor and Outdoor Testing and Performance Evaluation of Photovoltaic (PV) and Photovoltaic Thermal (PVT) Systems]		

Session Chair-I Dr. Mithun M S Assisatnt Professor NIT Calicut

Session Chair-II Ms. Jyoti Srivastava [Mob.: +918218683241] Associate Professor KIET Ghaziabad
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Session Coordinator Mr. Arun Kumar [Mob.: +919953031501] Assistant Professor KIET Ghaziabad

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Papers for presentation : 07	II-02	Gesture Control System	
	VIII-02	Fire Fighting Robot	
	VIII-03	A review Paper on Automatic Packaging System using PLC	
	VIII-11	WEIGHT SENSING AUTOMATIC GATE	
	VIII-13	A Review Paper on E-Commerce	
	VIII-14	Smart car parking using arduino	
	II-01	Substation Monitoring and Control Using Microcontroller & GSM	

Session: 9	Topics related to the technology benefiting humanity and society (BHS)	07.11.2020 @ 10:00 AM
Session Keynote detail	Dr. A. Abu-Siada Professor Curtin University, Australia [Title: Superconducting Magnetic Energy Storage, a Promising Technology for Future Power Systems]	

Session Chair-I Dr. Udaybir Singh Senior Technical Officer CSIR-CSIO, Chandigarh

Session Chair-II Dr. Varun Gupta [Mob.: +919045440911] Assistant Professor KIET Ghaziabad

Session Coordinator Mr. Sudheer Kumar Singh [Mob.: +919015298870] Assistant Professor KIET Ghaziabad
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Papers for presentation : 08	IX-02	Voice Based Woman Protection System
	IX-03	Smart Security System for warehouse
	IX-04	Small Modulator Reactors
	IX-06	Review: An outbreak of Pollution in COVID-19
	IX-07	Data Analysis, Visualization and Predictive Analysis of CoVID-19 Pandemic Based on Total Infected Cases
	IX-13	Modelling of influence of technology on students psychology using fuzzy logic
	IX-14	An Innovative Approach to Establish, Maintain and Review Quality Standards in Higher Education through Quality Assurance Tool
	IX 11	Social Media Fake News Detection

Dr. Natwar Singh Rathore
Technical Chair

Dr. Nitin Kumar Saxena
Organizing Chair