



## **DEPARTMENT OF ELECTRICAL ENGINEERING FACULTY OF ENGINEERING & TECHNOLOGY**

**JAMIA MILLIA ISLAMIA (A CENTRAL UNIVERSITY), NEW DELHI**

**NAAC Accredited Grade 'A'**

### **Programme schedule**

**(Time for Presentation: 10 minutes + 03 minutes for Question/Answer)**

## **International Conference on Power Electronics, Control and Automation (ICPECA-2019)**

<b>Date and Day</b>	<b>Event Name</b>	<b>Speaker/Presenter</b>	<b>Topic</b>	<b>Time</b>	<b>Venue</b>
15 Nov 2019 (Friday)	Ist Tutorial	Prof. Huai Wang	Condition and Health Monitoring in Power Electronic Systems	10:30 A.M. to 11:15 A.M.	Auditorium, Faculty of Engineering & Technology, JMI, New Delhi
	IInd Tutorial	Prof. Saad Mekhilef	MPPT controller for PV systems	03:00 PM to 03:45 PM	Auditorium, Faculty of Engineering & Technology, JMI, New Delhi

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	IIIrd Tutorial	Prof. Huai Wang	The Activation of Passive Components in Power Electronics: Circuit Topology and Control	03:45 PM to 04:30 PM	Auditorium, Faculty of Engineering & Technology, JMI, New Delhi
	TEA			04:30 PM	Lawn, Auditorium, Faculty of Engineering & Technology, JMI
16 Nov 2019 Saturday	Inaugural Ceremony	Distinguish Guests and Speakers		09:30 A.M. to 11:00 A.M.	Auditorium, Faculty of Engineering & Technology, JMI, New Delhi. Entry from GATE No. 05
	High Tea			11:00A.M. to 11:30 A.M.	Lawn, Auditorium, Faculty of Engineering & Technology, JMI
	First Key Note Address	Prof. Frede Blaabjerg	Power electronics — the key technology for grid integration of renewables	11:30A.M. to 12:15 P.M.	Auditorium, Faculty of Engineering & Technology, JMI, New Delhi
16 Nov 2019 Saturday	Slot- 1	12:15 P.M. to 01:30 P.M.- First Session of Oral Presentation			
		Track 01 : Power Electronics and Its Applications, Venue: Committee Room, Department of Electrical Engineering, JMI			
		Paper ID	Title	Registered Author	Session Chair
		41	Feeder Automation based Strategy for Reliability Enhancement of Radial Distribution Systems	Neha Sabeel	
		92	A Study on Power Quality Improvement by Active Power Filter in Hybrid Sustainable Energy Systems	Amit Kumar Roy	
		96	Designing and Modelling of Power Converter for Renewable Powered Hybrid Vehicle	Mohammad Waseem	
		122	Design a Control Mechanism for Energy Management System of Standalone Renewable Energy System for a Remote Area Power System	Piyali Ganguly	

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		127	Fault Ranking in PV Module based on Artificial Intelligence Technique (AIT)	Sana Perveen	
		12:15 P.M. to 01:30 P.M.			
		Track 01 : Power Electronics and Its Applications, Venue: Room No. 108, First Floor, Department of Electrical Engineering, JMI			
16 Nov 2019 Saturday	Slot - 2	09	Reconfiguration of Voltage Source Inverter for Field-Oriented Controlled Induction Motor Drive during Open-Circuit and Short-Circuit Faults	Srinivasa Rao Sandepud	
		42	An Improved Fault Tolerant Converter Topology for Field Oriented Controlled Induction Motor Drive	Srinivasa Rao Sandepud	
		34	MOSFET GIDL Current Variation with Impurity Doping Concentration – A Novel Approach	Aishik Das	
		35	Analysis of fault for railway traction system	Rohini Sharma	
		43	TIDF-II controller for hybrid system with renewable sources	Kavita Singh	
		12:15 P.M. to 01:30 P.M.			
		Track 01 : Power Electronics and Its Applications, Venue: Auditorium, Faculty of Engg & Technology, JMI			
16 Nov 2019 Saturday	Slot- 3	54	Simulation of CIGS based solar cells with SnO2 window layer using SCAPS-1D	Rihana Khan	
		90	Modeling And Simulation of Full Bridge Zero Voltage Switching Inverter With Fuzzy Logic Controller	Abhishek Sharma	
		101	Solar photovoltaic power converters: Technologies and their testing protocols for Indian inevitabilities	Richa Parmar	
		113	A Modified Single Source Dual Inverter Topology using Flying Capacitor for Open End Winding Induction Machine	Vasuda KV	
		125	Single-Source Hybrid Boost Multilevel Inverter Topology with Zero-Voltage-Switching Operation	Anurag Priyadarshini	

		12:15 P.M. to 01:30 P.M.			
16 Nov 2019 Saturday	Slot -4	Track 02 : CONTROL & MEASUREMENT IN POWER ELECTRONICS AND AUTOMATION, Venue: Room No. 107, First Floor, Department of Electrical Engineering, JMI			
		03	Mitigation of False Data Injection on Frequency Regulation using Non Linear Sliding Mode Control	Manpreet Chugh	
		112	Real-Time Simulation and Control of Helicopter Systems	Rupam Singh	
		157	Decentralized control for Stabilization of Coupled Pendulums using High gain Observer based Sliding Mode Control	Sudhir Raj	
		225	Design and Implementation of L-PID and IO-PID Controllers for Twin Rotor MIMO System	Rahul Kumar	
		71	Circular Microphone Array Based Stethoscope for Radial Filtering of Body Sounds	Mudasir Ahmad Sheikh	
		12:15 P.M. to 01:30 P.M.			
		Track 03 : APPLICATION OF IMAGE PROCESSING AND COMPUTER NETWORKING IN POWER ELECTRONICS & AUTOMATION, Venue: Room No. 111, First Floor, Department of Electrical Engineering, JMI			
16 Nov 2019 Saturday	Slot- 5	02	Cybersecurity Vulnerabilities of Smart Inverters and Their Impacts on Power System Operation	Taha Selim Ustun	
		142	Extending IEC 61850 Communication Standard to Achieve Internet-of-Things in Smartgrids	Taha Selim Ustun	
		154	Design & Analysis of PWM & MPPT Power Converters for Energy Harvesting IoT Nodes	Himanshu Sharma	
		31	Thermography Based Real Time Intelligent Condition Monitoring System for Solar Power Inverter	Irshad Khan	
		190	A Review of Cybersecurity Issues in Smartgrid Communication Networks	S.M. Suhail Hussain	

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		67	Various technologies used in 5G communication and the issues related to it.	Farhana Mustafa	
	Lunch			01:30 P.M. to 02:30 P.M.	Lawn, Nehru Guest House
16 Nov 2019 Saturday	Second Key Note Address	Prof. Akhtar Kalam	Smart Power Grid in 21 <sup>st</sup> Century	02:30 P.M. to 03:15 P.M.	Auditorium, Faculty of Engineering & Technology, JMI, New Delhi
16 Nov 2019 Saturday	Slot- 6	03:15 P.M. to 04:45 P.M.- Second Session of Oral Presentation			
		03:15 P.M. to 04:45 P.M.			
		Track 01 : Power Electronics and Its Application, Venue: Auditorium, Faculty of Engg & Technology, JMI			
		132	Machine learning based islanding detection for grid connected photovoltaic system	Mohammed Ali Khan	
		128	Scalar Modulation Strategy for Even-Phase-Output Matrix Converter	Mohammad Ayub	
		140	A Fault Tolerant Circuit Topology of Cascaded H-Bridge Converter to Maintain Rated Line Voltage during Faulty Conditions	Nidhi Bisht	
		149	Fault Classification with Robust Knowledge Transfer for Single Phase Grid Connected Photovoltaic Systems	Varaha Satya Bharath Kurukuru	
		153	A Comprehensive Review of Traditional and Smart MPPT Techniques in PMSG based Wind Energy Conversion System	Beena Kumari	
		169	Application of Supercapacitor as Hybrid Energy Storage Device in Stand-alone PV System	Kashif Javed	
		03:15 P.M. to 04:45 P.M.			
Track 02 : CONTROL & MEASUREMENT IN POWER ELECTRONICS AND AUTOMATION, Venue: Committee Room, Department of Electrical Engineering, JMI					
		143	A Renovated Pole Clustering Technique for Model Order Reduction	Abha Kumari	

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16 Nov 2019 Saturday	Slot -7	205	Nanowire based size-dependent Photoluminescence and Raman studies of N type porous silicon etched under illumination of varying wavelengths	Mohammad Zaid	
		207	Comparative Analysis of Dielectric Modulated Junctionless FinFET Biosensor and Junctionless DG MOSFET Biosensor for Medical Instrumentation	Himani Sehgal	
		176	Structural health monitoring using impedance sensor	Kazi Javed Akram	
		257	Carbon Nanotube FET based Power Shaping Circuit used in Biomedical Applications	Mohd Tauheed Khan	
		352	Effect of Shape and Foreign Particle on the Performance of the Wireless Capacitive Power Transfer Technology	Sameer Pervez Shamsi	
		03:15 P.M. to 04:45 P.M.			
		Track 02 : CONTROL & MEASUREMENT IN POWER ELECTRONICS AND AUTOMATION, Venue: Room No. 108, First Floor, Department of Electrical Engineering, JMI			
16 Nov 2019 Saturday	Slot -8	07	Motion Planning using Reinforcement Learning for Electric Vehicle Battery Optimization(EVBO)	Himanshu soni	
		27	Design and Implementation of the TGS822 Corrector	Nameesha Chauhan	
		218	Closed Loop Operation of Induction Machine using MRAS based Sensorless Scheme	Arif Iqbal	
		224	CLASSIFICATION OF DIFFERENT MATERIALS USING THEIR ACOUSTIC SIGNALS	MD QAISER REZA	
		230	MECHANISM AND OPTIMIZATION OF ACOUSTIC POWER TRANSFER SYSTEMS	Ariba Siddiqui	

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		03:15 P.M. to 04:45 P.M.			
		Track 03 : APPLICATION OF IMAGE PROCESSING AND COMPUTER NETWORKING IN POWER ELECTRONICS & AUTOMATION, Venue: Room No. 107, First Floor, Department of Electrical Engineering, JMI			
16 Nov 2019 Saturday	Slot -9	70	Study of various design techniques of Millimeter Wave Antennas for 5G Networks and IOT		
		82	Compact Microstrip Bandpass Filter using Stepped-Impedance Resonators and Stepped-Lumped Resonators for 5G Wi-Fi and WLAN Applications.	Zahid Ahmad Bhat	
		99	Synaptic behaviour of memristor model and its analysis of power and data transfer rate	Muhammad Khalid	
		108	Comparison of Different Microstrip Patch Antennas with Proposed RMPA for Wireless Applications	Harshit Srivastava	
		116	Design of Ambipolar CNTFET based Universal Logic Gates	Prachi Gupta	
		163	Investigation on the Switching Waveforms of GaN Power Devices to Gate Current Profiles	Matteo Vincenzo Quitadamo	
		03:15 P.M. to 04:45 P.M.			
		Track 03 : APPLICATION OF IMAGE PROCESSING AND COMPUTER NETWORKING IN POWER ELECTRONICS & AUTOMATION, Venue: Room No. 111, First Floor, Department of Electrical Engineering, JMI			
16 Nov 2019 Saturday	Slot -10	49	Analysis of NB-IoT Deployment, Obstacles and Opportunities for Indian Telecommunication Operators	Utkarsh Upadhyay	
		126	Comparative Performance Analysis of Digital Modulation Schemes with Digital Audio Transmission through AWGN Channel	Neda Fatima	

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		133	COMPARATIVE ANALYSIS OF PROPAGATION PATH LOSS MODELS IN LTE NETWORKS	Salman Ahmad Siddiqui	
		144	Performance Analysis of Broadband Power Line Channel for different Topologies	Mukesh Verma	
		214	Secure Communication:Using Synchronization On A Novel Fractional Order Chaotic System	Lone Seth Jahanzaib	
		181	Cross-Tier Interference Control Through Mode Selection and Resource Allocation (MSRA) in a D2D Network Using Uplink Frequency Reuse	Naved Alam	
	<b>Dinner</b>			<b>07:30 PM Onwards</b>	<b>Lawn, M. A. Ansari Auditorium</b>

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Date and Day	Event Name	Speaker/Presenter	Topic	Time	Venue
17 Nov 2019 Sunday	Third Key Note Address	Prof. Saad Mekhilef	The Role of Power Electronics in Providing the A sustainable energy Supply	09:30 A.M. to 10:15 A.M.	Auditorium, Faculty of Engineering & Technology, JMI, New Delhi
	Tea			10:15A.M. to 10:45 A.M.	Lawn, Auditorium, Faculty of Engineering & Technology, JMI
		10:45 A.M. to 01:00 P.M.- Third Session of Oral Presentation			
		Track 01 : Power Electronics and Its Application, Venue: Committee Room, Department of Electrical Engineering, JMI			
		Paper ID	Title	Registered Author	Session Chair
17 Nov 2019 Sunday	Slot -11	151	Converter Control of Hybrid Electric Vehicles	Mayank Jha	
		186	Control of Multilevel Inverter as Shunt Active Power Filter using Maximum Versoria Criterion	Praveen Bansal	
		164	A High Voltage DC-DC Converter for HEVs with a Novel Floating Control Stage	Erica Raviola	
		118	An efficient algorithm for voltage enhancement and control analysis of power system	Yudhishtir Pandey	
		216	Novel Real-Time Energy Management in Hybrid Electric Vehicle	Anish Uday Bhurke	
		198	ANN Based Approach for the Estimation and Enhancement of Power Transfer Capability	Mohammad Amir	
		10:45 A.M. to 01:00 P.M.			
		Track 01 : Power Electronics and Its Application, Venue: Auditorium, Faculty of Engg & Technology, JMI			
17 Nov 2019 Sunday	Slot -12	223	Hybrid algorithm for reactive power control in grid integrated Photovoltaic inverters	Al- Zoya Fatama	
		246	Real Time Analysis of VFT for Asynchronous Power Flow Control using Typhoon HIL	Raiya Manzoor Qureshi	

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		247	Design and Performance Analysis of Synchronization techniques under Non-Ideal conditions	Ankit Singhal	
		253	Failure Rate Basics for a Case Study on Grid Connected Photovoltaic Plant	Sajjad Ali	
		155	Fault Identification Algorithm for Grid Connected Photovoltaic Systems using Machine Learning Techniques	Kanula Dadhich	
		<b>10:45 A.M. to 01:00 P.M.</b>			
		<b>Track 01 : Power Electronics and Its Application,</b> <b>Venue: Room No. 108, First Floor, Department of Electrical Engineering, JMI</b>			
17 Nov 2019 Sunday	Slot -13	192	Droop based Low voltage ride through implementation for grid integrated photovoltaic system	Mohammed Ali Khan	
		256	Development of Conductance Based Algorithm for Compensation in Highly Unbalanced and Distorted Grid	Amarendra Pandey	
		269	A SEPIC Based High Gain Transformerless DC-DC Converter	Chinmay Rajesh Chobe	
		236	Power Management for Hybrid Energy Storage System in Electric Vehicles	Mohammad Jasim Usman	
		278	Novel Six Phase Doubly Fed Induction Generator through Modeling and Simulation-A Comparison with Conventional Doubly Fed Induction Generator	Neeraj Kumar Mishra	
		294	CONTROL STRATEGY OF DIODE CLAMPED MULTILEVEL INVERTER WITH PV SYSTEM AS SEPARATE DC SOURCE	Gourabh Kumar	
		<b>10:45 A.M. to 01:00 P.M.</b>			
		<b>Track 01 : Power Electronics and Its Application,</b> <b>Venue: Room No. 111, First Floor, Department of Electrical Engineering, JMI</b>			
17 Nov 2019 Sunday	Slot -14	215	Reliability Analysis of Silicon Carbide Power Modules in Voltage Source Converters	Varaha Satya Bharath Kurukuru	
		324	Optimal Operation of Unified Power Flow Controller under Controlled Conditions	Niranjan Kumar	

		326	STABILITY OF GRID WITH THE PENETRATION OF SOLAR PV BASED GENERATION IN POWER SYSTEMS	Manoj Kumar Singh	
		343	Genetic Algorithm based Optimal Operation of a Modified H-bridge single phase MLI	Adil Sarwar	
		353	Bid Responsive Generation Rescheduling for Congestion Management in Deregulated Electricity Market	Farheed	
		<b>10:45 A.M. to 01:00 P.M.</b>			
		<b>Track 02 : CONTROL &amp; MEASUREMENT IN POWER ELECTRONICS AND AUTOMATION,</b> <b>Venue: Room No. 107, First Floor, Department of Electrical Engineering, JMI</b>			
17 Nov 2019 Sunday	Slot -15	85	Detection of Incipient Fault in Transformer using DGA Based Integrated Intelligent Method	Obaidur Rahman	
		180	Dynamic Capacitor Placement To Mitigate Disaster In Distribution System: A Fuzzy Approach	Shyam Mohan Parashar	
		166	Real Time Microgrid State Estimation Using Phasor Measurement Unit	Muhammad Huzaifa	
		274	Impact of Noise On Inclusive Performance Of Learner In An Educational Institute	Bharat Bhushan Sharma	
		178	A Sensitive Surface Acoustic Wave Sensor for Monitoring Humidity for Substation Application	Shamim Alam	
		<b>10:45 A.M. to 01:00 P.M.</b>			
		<b>Track 03 : APPLICATION OF IMAGE PROCESSING AND COMPUTER NETWORKING IN POWER ELECTRONICS &amp; AUTOMATION,</b> <b>Venue: Room No. 109, First Floor, Department of Electrical Engineering, JMI</b>			
17 Nov 2019 Sunday	Slot -16	98	Fuzzy Cloud Access Security Broker for Requirements Negotiation and Prioritization	Shahnawaz Ahmad	
		124	Fault Classification for Unmanned Surface Vehicles using Supervised Learning Methods	Rupam Singh	

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		137	Nearest Neighbor Classifier for Vision Based Unstructured Road detection	Altaf Alam	
		138	Decision Tree Classifier Based Pedestrian Detection for Autonomous Land Vehicle Development	Altaf Alam	
		185	Categorical vehicle classification using Deep Neural Networks	Deependra Sharma	
		288	An optimizing utility for Portfolio Selection based on Optimal values computed using ANN, NSGA-II and Machine learning technique	Chanchal Kumar	
		10:45 A.M. to 01:00 P.M.			
		<b>Track 03 : APPLICATION OF IMAGE PROCESSING AND COMPUTER NETWORKING IN POWER ELECTRONICS &amp; AUTOMATION,</b> <b>Venue: Seminar Room, Placement Cell, Third Floor, Faculty of Engg &amp; Tech, JMI</b>			
17 Nov 2019 Sunday	Slot -17	83	Analysis and Architecture for the deployment of Dynamic License Plate Recognition Using YOLO Darknet	Utkarsh Upadhyay	
		117	Lossless Compression Algorithm for Energy Efficient Wireless Sensor Network	Md. Sajjad Ahmad	
		150	Design of Python Based Lost and Found Website for College Campus	Usha Tiwari	
		152	Research Issues in Energy Harvesting Internet of Things	Himanshu Sharma	
		325	A Study of Real Deep Learning Errands for Medical Images Examination	Mohammad Affan	
		359	Machine Learning based Energy Efficient Wireless Sensor Network	Sonam Lata	

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		17	A Review of Omega based portfolio optimization	Vikash Kumar Dubey	
	<b>Lunch</b>			<b>01:00 PM to 02:15 PM</b>	<b>Lawn, Nehru Guest House</b>
	<b>Fourth Key Note Address</b>	<b>Prof. Huai Wang</b>	<b>Power Electronics Reliability - State-of-the-Arts and Outlooks</b>	<b>02:15 P.M. to 03:00 P.M.</b>	<b>Auditorium, Faculty of Engineering &amp; Technology, JMI, New Delhi</b>
		<b>Fourth Session of Oral Presentation 03:00 P.M. to 04:45 P.M.</b>			
		<b>Track 01 : Power Electronics and Its Application, Venue: Committee Room, Department of Electrical Engineering, JMI</b>			
17 Nov 2019 Sunday	Slot -18	273	Review on Reliability of Power Electronic Components in Photovoltaic Inverters	Mohd. Shahzad	
		342	An overview of Fuel Cell Based Distribution Generation Integration	Mohd Faizan	
		344	Performance Analysis and Comparative Evaluation of Two-winding Multi-tapped Transformer Based Nine-Level Inverter	Md Abdullah Ansar	
		356	Study On Future of Solar Thermal Storage System Using Concentrated Solar Power	Anil Kumar	
		357	Photovoltaic Based Application for Domestic Load	Syed Mohammad Mahmood	
		254	Genetic Algorithm based SHE-PWM for 1- $\phi$ and 3- $\phi$ Voltage Source Inverters	Manita Kumari	
		<b>03:00 P.M. to 04:45 P.M.</b>			
		<b>Track 02 : CONTROL &amp; MEASUREMENT IN POWER ELECTRONICS AND AUTOMATION, Venue: Auditorium, Faculty of Engg &amp; Technology, JMI</b>			
17 Nov 2019 Sunday	Slot -19	277	Modeling and Analysis of Four-Port DC-DC Converter	Ashish Laddha	
		346	Modeling and control of Dual Active Bridge by Fractional order controllers	Shipra Tiwari	
		202	Analysis of a Novel 3-D Fractional Order Chaotic System	Pushali Trikha	
		148	An Accurate State Estimation Methodology for a Completely	Obaidur Rahman	

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			Observable Network with PMU Measurements		
		165	Control of drum level dynamics in Coal-Fired Boiler-Turbine Units	Rupam Singh	
		<b>03:00 P.M. to 04:45 P.M.</b>			
		<b>Track 03 : APPLICATION OF IMAGE PROCESSING AND COMPUTER NETWORKING IN POWER ELECTRONICS &amp; AUTOMATION,</b> <b>Venue: Room No. 108, First Floor, Department of Electrical Engineering, JMI</b>			
17 Nov 2019 Sunday	Slot -20	119	Fast Base Extension using Single Redundant Modulus in a Residue Number System	Shivang Bharadwaj	
		174	Implementation of an Efficient N×N Multiplier Based on Vedic Mathematics and Booth-Wallace Tree Multiplier	Avinash Jain	
		184	An Optical Flow Based Approach for Facial Expression Recognition	Shivangi Anthwal	
		221	Performance Comparison of De-speckling filters on the Basis of Incremental Iteration in Ultrasound Imaging	Ankur Bhardwaj	
		231	Low Bitrate Image Coding based on Dual Tree Complex Wavelet Transform	Nadeem Ahmad	
		268	A Miniaturized Low-Profile UWB Antenna for Microwave Imaging Applications	Pawan Kumar	

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		<b>Fifth Session of Skype Presentation 03:00 P.M. to 04:45 P.M.</b> <b>Venue: Room No. 127 First Floor, APER Lab Department of Electrical Engineering, JMI</b>			
		<b>All Tracks</b>			
17 Nov 2019 Sunday	Slot -21	199	A Study on Deep Learning Architecture and Their Applications	Samip Ghimire	
		201	Fuzzy Logic Controller Operated Water Treatment Plant	Dheeraj Sen	
		229	Supplemental Instruction for Improving Students Formative Assessments in High Risk Engineering Modules	Elisha Markus	
		20	Autonomous Mobile Robot Path Planning and IoT Communication	Shubham Nagla	
		84	Performance Evaluation of PI Tuning Rules for Stable Time Delay Processes: A Comparative Study	Moina Ajmeri	
		213	Study on PCB Designing Problems and their Solutions	Vishal Anand	
		18	Design of Composite Energy Storage System for Wind Turbine under Gust	Durga Malleswara Rao Korada	
		26	Performance Enhancement of PPMIM Drives by using 3 Three-Phase Four-Leg Inverters	M.A. Alhitmi	
		61	A Dual Output High Gain DC-to-DC Converter for Electric Vehicle Application	M.A. Alhitmi	
		102	A Complete Design and Investigation of Grid-tied Solar PV System in MATLAB-Simulink	Ankireddy Narendra	

		139	Real-Time Solar inverter Parameter Monitoring for Photovoltaic Systems	Mohd Sajid Khan	
		188	Direct Power Control of Dual Active Bridge Bidirectional DC-DC Converter	Nishit Tiwary	
		193	Reinforcement Learning Based Energy Management in Hybrid Electric Vehicle	Anish Uday Bhurke	
		271	Train Collision Avoidance Using GPS and GSM Module	Naeemul Islam	

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