

Schedule for PIICON-2020

Day 1: 28th Feb. 2020

Timings	Activity	Venue		
08:30 – 09:30 AM	Registration	Ground Floor, Deendayal Upadhyaya Convention Centre, DCRUST, Murthal		
09:30 – 10:45 AM	Tutorial-1 by Prof. Bhim Singh	Hall No. 1		
10:45 – 11:00 AM	Tea Break	Ground Floor, Lobby Area		
11:00 – 12:30 Noon	Inaugural Function	Deendayal Upadhyaya Convention Centre		
12:30 – 01:30 PM	Tutorial-2 by Prof. Williamson	Deendayal Upadhyaya Convention Centre, DCRUST, Murthal		
01:30 – 02:15 PM	Lunch	Ground Floor, Lobby Area		
02:15 – 03:45 PM	Technical Session-1	Hall No. 1	Hall No. 2	Hall No. 3
03:45 – 04:00 PM	Tea Break	Ground Floor, Lobby Area		
04:00 – 05:30 PM	Technical Session-2	Hall No. 1	Hall No. 2	Hall No. 3

Day 2: 29th Feb. 2020

Timings	Activity	Venue		
08:30 – 09:30 AM	Registration	Ground Floor, Deendayal Upadhyaya Convention Centre, DCRUST, Murthal		
09:30 – 10:45 AM	Tutorial-3 by Prof. H. Pota	Hall No. 1		
10:45 – 11:00 AM	Tea Break	Ground Floor, Lobby Area		
11:00 – 12:30 Noon	Technical Session-3	Hall No. 1	Hall No. 2	Hall No. 3
12:30 – 01:30 PM	Technical Session-4	Hall No. 1	Hall No. 2	Hall No. 3
01:30 – 02:15 PM	Lunch	Ground Floor, Lobby Area		
02:15 – 03:45 PM	Panel Discussion	Hall No. 1		
03:45 – 04:00 PM	Tea Break	Ground Floor, Lobby Area		
04:00 – 05:30 PM	Technical Session-5	Hall No. 1	Hall No. 2	Hall No. 3

Day 3: 1st Mar. 2020

Timings	Activity	Venue		
08:30 – 09:30 AM	Registration	Ground Floor, Deendayal Upadhyaya Convention Centre, DCRUST, Murthal		
09:30 – 10:45 AM	Tutorial-4 by Prof. J. G. Singh	Hall No. 1		
10:45 – 11:00 AM	Tea Break	Ground Floor, Lobby Area		
11:00 – 12:30 Noon	Technical Session-6	Hall No. 1	Hall No. 2	Hall No. 3
12:30 – 01:30 PM	Technical Session-7	Hall No. 1	Hall No. 2	Hall No. 3
01:30 – 02:15 PM	Lunch	Ground Floor, Lobby Area		
02:15 – 03:45 PM	Valedictory Function	Hall No. 1		
03:45 – 04:00 PM	Hi-Tea	Ground Floor, Lobby Area		

PAPER SCHEDULE

28.02.2020 (Day 1)	<i>Technical Session-1 (28.02.2020 / 02:15 PM – 03:45PM)</i>					
	Hall No. 1		Hall No. 2		Hall No. 3	
	1570613040	1570620909	1570620938	1570621085	1570616843	1570616901
	1570621118	1570623879	1570615806	1570620284	1570620412	1570616914
	1570624925	1570618794	1570621108	1570617215	1570619468	1570616917
	1570622627		1570619805		1570616921	
	<i>Technical Session-2 (28.02.2020 / 04:00 PM – 05:30 PM)</i>					
	Hall No. 1		Hall No. 2		Hall No. 3	
	1570623197	1570623278	1570617741	1570622303	1570623868	1570623977
	1570623236	1570620906	1570624364	1570623817	1570619627	1570624027
1570623270	1570623406	1570624978	1570623824	1570623921	1570624034	
1570620887	1570623368	1570620771				
29.02.2020 (Day 2)	<i>Technical Session-3 (29.02.2020 / 11:00 AM – 12:30 Noon)</i>					
	Hall No. 1		Hall No. 2		Hall No. 3	
	1570621522	1570623638	1570614010	1570614011	1570610680	1570619541
	1570623191	1570623765	1570614009	1570614002	1570620640	1570617691
	1570623251	1570623899	1570614008	1570620885	1570621123	1570620865
	1570623938	1570620897	1570614007	1570620935	1570616962	
	<i>Technical Session-4 (29.02.2020 / 12:30 Noon – 01:30 PM)</i>					
	Hall No. 1		Hall No. 2		Hall No. 3	
	1570620980	1570623806	1570621068	1570623649	1570621113	1570621119
	1570620995	1570616759	1570621074	1570621094	1570620950	1570621122
	1570614685	1570621058	1570620708	1570621106	1570616565	1570616570
	1570621062		1570621054		1570621125	1570616866
	<i>Technical Session-5 (29.02.2020 / 04:00 PM – 05:30 PM)</i>					
	Hall No. 1		Hall No. 2		Hall No. 3	
1570623842	1570616996	1570627680	1570623939	1570626522	1570621131	
1570624063	1570623658	1570624048	1570624146	1570620801	1570621136	
1570624092	1570623796	1570626520	1570625279	1570623110	1570622088	
1570625348		1570621128		1570616543	1570616694	
01.03.2020 (Day 3)	<i>Technical Session-6 (01.03.2020 / 11:00 AM – 12:30 Noon)</i>					
	Hall No. 1		Hall No. 2		Hall No. 3	
	1570617788	1570610450	1570620641	1570621104	1570611287	1570616766
	1570620770	1570620633	1570620731	1570621114	1570616567	1570616778
	1570620774	1570620667	1570620817	1570622609	1570616753	1570617110
	1570621115	1570616822	1570616875	1570622612	1570620955	1570619763
	<i>Technical Session-7 (01.03.2020 / 12:30 Noon – 01:30 PM)</i>					
	Hall No. 1		Hall No. 2		Hall No. 3	
	1570621034	1570611112	1570619637	1570619908	1570620565	1570620656
	1570617870	1570619164	1570620975	1570620106	1570620629	1570610448
1570616915	1570621153	1570619825	1570620876	1570620654	1570620734	
1570612995	1570621088	1570621049	1570624057	1570620874	1570621038	

DETAILED PAPER SCHEDULE

Technical session-1 28.02.2020 2:15PM-3:45PM

Hall No. 1	Session Chair : Prof. Subrata Mukhopadhyay	Session Co-chair: Prof. A.K. Singh
Paper ID	Paper Title	Authors
1570613040	Economic Benefits for Reactive Power Compensation as Ancillary Service Through Multi Units Based Electrical System	Nitin Kumar Saxena (KIET, Ghaziabad, India), Ashwani Sharma (NIT Kurukshetra, India), Kapil Gandhi (NIT Hamirpur, India)
1570621118	S-Transform Based Detection of Multiple and Multistage Power Quality Disturbances	Rajat Kr.; Raj Kr., Sanjay Marwaha (SLIET, Longowal, India), Bhim Singh (IIT Delhi, India)
1570624925	Dual Layer Least Mean Fourth Based Control of Grid-Interfaced Wind Turbine Coupled DFIG with Reduced Current Sensors	Sambasivaiah Puchalapalli and Bhim Singh (IIT Delhi, India)
1570622627	A High Power Quality Battery Charger for Light Electric Vehicle Based on Improved BL Cuk Converter with Low Component Count	Bhim Singh, Radha Kushwaha (IIT Delhi India)
1570620909	Optimal Planning of Distributed Generation Using Hybrid Metaheuristic Approach	Puneet Joshi (REC UP, India), Kundan Kumar (SGI, India), Medha Joshi (SLSET, India), Lokesh Yadav (IIT BHU, India)
1570623879	Reduced Sensor Based Vector Control of Grid-Interactive DFIG with Wind Power Levelling Capability	Souvik Das, Sambasivaiah Puchalapalli and Bhim Singh (IIT Delhi, India)
1570618794	Reweighted Zero Attracting Maximum Correntropy Criterion Algorithm Based Solar Grid Interfaced System for Alleviating Power Quality Problems	Abhishek Ranjan, Seema Kewat and Bhim Singh (IIT Delhi, India)

Technical session-1 28.02.2020 2:15PM-3:45PM

Hall No. 2	Session Chair : Prof. Bhim Singh	Session Co-chair: Prof. Naresh Kumar
Paper ID	Paper Title	Authors
1570615806	Grid Interaction of Wind Power Generation System Using Maximum-Likelihood Estimator Framework for Power Quality Improvement	Farheen Chishti, Shadab Murshid and Bhim Singh (IIT Delhi, India)
1570621108	Performance Optimization of Grid Interactive Switched Reluctance Motor Driven SPWPS Utilizing a New Structure of Boost Converter	Anjaneesh Mishra and Bhim Singh (IIT Delhi, India)
1570619805	Double Stage Grid-Tied Solar PV System Using HC-LMS Control	Abhishek Kumar, Seema and Rashmi Jain (J. C. Bose UST, Faridabad, India) and Bhim Singh (IIT Delhi, India)
1570621085	Improved Power Quality Charger Based on Bridgeless Canonical Switching Cell Converter for a Light Electric Vehicle	Jitendra Gupta, Radha Kushwaha and Bhim Singh (IIT Delhi, India)
1570620284	ENF Based Control for PV System Under Distorted Grid Condition	Vandana Jain, Bhim Singh (IIT Delhi), Ikhlakh Hussain (Univ. of Kashmir, India)
1570617215	Multilevel Converter with Binary Turns Ratio for Solar PV Grid Tied Applications	Shivam Kumar Yadav and Nidhi Mishra and Bhim Singh (IIT Delhi, India)
1570620938	DTFC-SVM Based Five-level Cascaded Inverter with Reduced Switches Fed Interior Type Permanent Magnet Synchronous Motor Drive	Tejavathu Ramesh, Ramakrishna Pothuraju and Poondla Dharmendra Kumar (NIT Andhra Pradesh, India)

Technical session-1 28.02.2020 2:15PM-3:45PM

Hall No. 3 Session Chair : Prof. Prerna Gaur

Session Co-chair: Prof. S. K. Gupta

Paper ID	Paper Title	Authors
1570616843	Modified Control Technique for Series and Shunt Converters of UPQC to Enhance Power Quality	Mashhood Hasan (Jazan University, Saudi Arabia); Bhim Singh and Sachin Devassy (IIT Delhi, India)
1570620412	Solar PV Array Integrated UPQC for Power Quality Improvement Based on Modified GI	Chandrakala Devi Sanjenbam, Priyank Shah, Sachin Devassy and Bhim Singh (IIT Delhi, India)
1570619468	Hybrid DSC with Compensation Capability Based Control for Grid Integrated SPV System	Sunil Kumar Pandey and Bhim Singh (IIT Delhi, India)
1570616921	Single Stage Integration of PMSG to the Grid Using MMCC-TSBC for WECS	Amit Kar, Mayur Mayur, Chandan Kumar, Abanishwar Chakraborti, Bikram Das and Prabir Kasari (NIT Agartala, India)
1570616901	Coordination Between Modified MPPT and Battery Storage System for Flexible Active Power Control of Grid Connected PV System	Ganesh Marasini, Kishan Jayasawal, Yuba Raj Purja, Khagendra Thapa and Nava Raj Karki (Tribhuvan University, Nepal)
1570616914	Active and Reactive Power Management of EVs in Reconfigurable Distribution System	Jyotsna Singh and Rajive Tiwari (MNIT Jaipur, India)
1570616917	Power Flow Control in Solar PV Fed DC Microgrid with Storage	Harshita Tiwari and Arnab Ghosh (NIT Rourkela, India)

Technical session-2 28.02.2020 4:00PM-5:30PM

Hall No: 1 Session Chair: Prof. Subrata Mukhopadhyay

Session Co-chair: Prof. A. K. Singh

Paper ID	Paper Title	Authors
1570623197	Adaptive Control for Voltage Source Converter Connected to Weak Grid Based on Backstepping Method	Pritha Paitandy, Surya Prakash and Sukumar Mishra (IIT Delhi, India)
1570623236	Open Circuit Switch Fault Detection in Multilevel Inverter Topology Using Machine Learning Techniques	Pratibha Achintya and Lalit Kumar (NIT Raipur, India)
1570623270	Global Maximum Power Point Tracking for PV Array Under Partial Shading Using Cuckoo Search	Rahul Anand, Swaroop D and Bhavnesh Kumar (NSUT New Delhi, India)
1570623278	Enhanced Two-stage Coordination Control of AC/DC Hybrid Microgrid	Vipin Kumar Dhiman and Shivam (NIT Kurukshetra, India)
1570620906	Designing Microgrid for an Institute Utilizing Renewable Energy Sources	Sukriti Segal, S. Kuruseelan and C. Vaithilingam (VIT Chennai, India), Ravi Segal (GE Energy Consulting Bangalore, India)
1570623406	K-means Clustering and Linear Regression Based Protection Scheme for Transmission Line	Amit Kumar Gangwar (GEC Jhalawar, India), Bhunesh Rathore (IIT Jodhpur, India), Om Prakash Mahela (RVPN, Jaipur, India)
1570623368	SEPIC-MISO Converter Based PV Water Pumping System- An Improved Performance Under Mismatching Conditions	Anuradha Tomar (JSS Academy, India), Phuong Nguyen (Eindhoven Univ., Netherlands); Sukumar Mishra (IIT Delhi)
1570620887	Fast Identification of Ancillary Service Locations for Improving Hopf Bifurcation Margin Under Uncertainties	Bevin K C, Ram Krishan and Ashu Verma (IIT Delhi, India)

Technical session-2 28.02.2020 4:00PM-5:30PM

Hall No: 2 Session Chair : Prof. Bhim Singh Session Co-chair: Prof. Naresh Kumar

Paper ID	Paper Title	Authors
1570617741	Harmonic Suppression Scheme for Multi-Pulse Converter Fed Multilevel Inverter Based IM Drive	Rohit Kumar, Piyush Kant and Bhim Singh (IIT Delhi, India)
1570624364	Control of UPQC Through Observer Based System Integrated with Frequency Adaptive Loop and Optimized PI Gains	Sabha Raj Arya and Sayed Javed Alam (SVNIT Surat, India)
1570624978	A Novel Approach Towards Static Inverter Circuit Design	Papia Ray and Kr Satyajit (Veer Surendra Sai University of Technology, India)
1570620771	Execution of Real-time Wide Area Monitoring System with Big Data Functions and Practices	Raju Chintakindi (VSNIT Nagpur, India) and Arghya Mitra (IIT Kharagpur, India)
1570622303	A Wide Output Voltage Resonant EV Charger with Power Factor Correction	Rahul Pandey and Bhim Singh (IIT Delhi, India)
1570623817	Integration and Control of a Hybrid Isolated System Using SMC Based Nine Switch Converter	Abhijeet Choudhury, Soumya Mohanty, Swagat Pati, Sanjeeb Kar, Shantanu Kr. Mahalik and Rumeet Swain (SOA University, India)
1570623824	Multi-functional Control of Hybrid PV-Battery Integration with Single-Phase Grid Tied Converter	Yashi Singh, Bhim Singh and Sukumar Mishra (IIT Delhi, India)

Technical session-2 28.02.2020 4:00PM-5:30PM

Hall No: 3 Session Chair : Prof. Rachna Garg Session Co-chair : Prof. S. K. Gupta

Paper ID	Paper Title	Authors
1570623868	A Voltage Sensorless and PLL Less Virtual Flux Based Enhanced Predictive DPC Technique for Grid Connected Converter with Improved Power Quality Performance	Amit Kumar and Sukumar Mishra (IIT Delhi, India) and Srungavarapu Gopalakrishna (NIT Rourkela, India)
1570619627	Space Vector-Based Enhanced Modulation Scheme for a Reduced Switch Five-Level Inverter	Poonam Jayal and G. Bhuvaneshwari (IIT Delhi, India)
1570623921	Maximum Versoria Criteria Based Adaptive Filter Algorithm for Power Quality Intensification	Archana Sharma and Bharat Singh Rajpurohit (IIT Mandi, India)
1570623977	Comparison of Power Losses for Different Control Strategies of UPQC	Sisir Kumar Yadav, Ashish Patel and Hitesh Datt Mathur (BITS Pilani, India)
1570624027	Power Management Control Strategy for PV-Battery Standalone System	Deeksha Bhule, Sachin Jain and Subhojit Ghosh (NIT Raipur, India)
1570624034	High Voltage Gain DC-DC Non-Isolated Converter with Generalized Stages	Hritik N Chavan and Rupesh Wandhare (IIT Hyderabad, India)

Technical session-3 29.02.2020 11:00AM-12:30PM

Hall No: 1 Session Chair : Prof. Subrata Mukhopadhyay

Session Co-chair: Prof. A. K. Singh

Paper ID	Paper Title	Authors
1570621522	Long Term Planning for Indian Power Sector with Integration of Renewable Energy Sources	Subrata Mukhopadhyay (NSUT Delhi, India), Praveen Gupta, Brijesh K Arya, Ashok K Rajput and Vijay Menghani (CEA, India).
1570623191	Scheduling of Energy on Deregulated Environment of PBUC Problem Using GAMS	Vineet Kumar, R. Naresh and Amita Singh (NIT Hamirpur, India)
1570623251	Analysis of Partial Discharge Measurements in High Voltage XLPE Cable	Neha Adhikari (CPRI, India) and Ujjwal Kumar Kalla (GEC Bikaner, India)
1570623938	Scheduling BESS for Primary Frequency Response in Low Inertia Grids	Priyanka Kushwaha (MNIT Jaipur, India), Vivek Prakash (Banasthali Vidyapith, India)
1570623638	Multi-Time Instant Probabilistic PV Generation Forecasting Using Quantile Regression Forests	Debesh Tripathy and B Rajanarayan Prusty (NIST, India), Debashisha Jena (NIT Surathkal, India), Manoj Sahu (BPUT, India)
1570623765	Optimal Planning of Photovoltaic and Battery Storage in Distribution Grid Integrated with Demand Response	Tanuj Rawat, K. Niazi, Nikhil Gupta and Sachin Sharma (MNIT Jaipur, India)
1570623899	Coordinated Scheduling of Virtual Energy Storage System for Optimal Microgrid Operation	Chandra Prakash Barala, Parul Mathuri and Rohit Bhakar (MNIT Jaipur, India)
1570620897	PID Control of the OWC Plant to Improve Ocean Wave Energy Capture	Sunil Kr. Mishra, Bhargav Appasani, Amit Kr. Jha , Mano Kr. (KIIT University, India), Vijay Verma (ISRO), Avadh Pati (NIT Silchar, India)

Technical session-3 29.02.2020 11:00AM-12:30PM

Hall No: 2 Session Chair : Prof. Ratna Dahiya

Session Co-chair: Prof. Naresh Kumar

Paper ID	Paper Title	Authors
1570620885	Optimal Coordination of Dual Setting Directional over Current Relays in Microgrid with Different Standard Relay Characteristics	Raghvendra Tiwari, Niraj Choudhary and Ravindra Singh (MNNIT Allahabad, India)
1570620935	Measurement and Impact Assessment of Radio Frequency Electromagnetic Fields in Dayalbagh Educational Institute	Anubhav Pathak and Ashok Jangid (Dayalbagh Educational Institute, India)
1570614002	Thermal Performance of Ester Oil Transformers with Different Placement of Cooling Fan	Jeyabalan Velandy (GET&D Ltd, India), Ankita Garg (TIET India), C. S. Narasimhan (SOTL)
1570614007	Effect of Aromatics and Polar Contaminant of Natural Ester Oil on Dielectric Strength and Breakdown Time in Mineral Oil Under Lightning Impulse Voltage Excitations	Pavitra Sharma, Ritika Aggarwal (TIET patiala, India), C. S. Narasimhan, Sohan S. Beldar (Savita Oil Technologies Ltd. Mumbai, India) and Jeyabalan Velandy (GET&D Ltd, India)
1570614008	Continuous Thermal Overloading Capabilities of Ester Oil Transformers in Oil Directed Cooling Conditions	Jeyabalan Velandy (GET&D Ltd, India), Ankita Garg (TIET Patiala, India), C. S. Narasimhan (Savita Oil Technologies Ltd. Mumbai, India)
1570614009	Accounting Changes in Permittivity of Ester and Mineral Oil Through Frequency Response Analysis	Jeyabalan Velandy (GE T & D India Ltd, India)
1570614010	Behavior of Natural Ester Oil Under Negative and Positive Lightning Impulse Stress	Jeyabalan Velandy (GE T & D India Ltd, India)
1570614011	Prediction of Static Pressure Drop Velocity and Flow Rate of Higher Viscous Nature of Ester Oil in Power Transformers Under Oil Directed Cooling Conditions	Jeyabalan Velandy (GE T & D India Ltd, India)

Technical session-3 29.02.2020 11:00AM-12:30PM

Hall No: 3 Session Chair : Dr. Arun Kumar Verma

Session Co-chair : Prof. S. K. Gupta

Paper ID	Paper Title	Authors
1570610680	A Case Study on PV Assisted Microgrid Using HOMER Pro for Variation of Solar Irradiance Affecting Cost of Energy	Sahil Mehta and Prasenjit Basak (TIET Patiala, India)
1570620640	Optimal Placement of μ PMUs in Distribution System Integrated with Distributed Energy Resources	Surinder Chauhan and Ratna Dahiya (NIT Kurukshetra, India)
1570621123	Inter-Turn Fault Analysis of Three Phase Induction Motor	Priyanka C P and Jagadanand G (NIT Calicut, India)
1570616962	Frequency Based Energy Management Scheme for Multi-Input Converters	Varun Chitransh and Veerachary Mummadi (IIT Delhi, India)
1570619541	Prediction of Insulating Oil for Transformers Through Fuzzy Logic Approach	Zaid B Siddique, Prasenjit Basak and Sahil Mehta (TIET Patiala, India)
1570617691	Prevention of Power System Blackouts Using Windowed-Prony Method	Kasimala Venkatanagaraju and Monalisa Biswal (NIT Raipur, India)
1570620865	Centralized Adaptive Directional Overcurrent Protection System for a Microgrid with Relay Coordination	Nalin C Ekanayake, Pasindu R Padmathilaka, Nishadi D Gunawardhana, Thiramuni Sisitha Sameera Senarathna, KTM Udayanga Hemapala and Randunu Prabash (University of Moratuwa, Sri Lanka)

Technical session-4 29.02.2020 12:30PM-1:30PM

Hall No: 1 Session Chair : Prof. Subrata Mukhopadhyay

Session Co-chair: Prof. A. K. Singh

Paper ID	Paper Title	Authors
1570620980	Developing Multi Agent Based Energy Management System for Microgrids	Nalin C Ekanayake, Kaushali Perera, Ravindi Disanayaka, Sapumal Bandara Walisunadara, Chathuranga Saman, Vimukkthi Priyadarshana and KTM Udayanga Hemapala (University of Moratuwa, Sri Lanka)
1570620995	Improved Modular Flying Capacitor Converter Based Grid-Tied Hybrid Wind Solar Energy System	Bhupender Sharma and Ratna Dahiya (NIT Kurukshetra, India)
1570614685	State Space Modeling and Stability Analysis of the Flyback Converter	Tapas Halder (Kalyani Government Engineering College, India)
1570621062	High Gain Switched Inductor Split Source Inverter for Solar Energy Applications	Pinjala Mohana Kishore, Akhila Sabnaveesu and Ravikumar Bhimasingu (IIT Hyderabad, India)
1570623806	An Efficient Wireless Charger for Electric Vehicle Battery Charging	Jitendra Nama and Arun Kumar Verma (MNIT Jaipur, India)
1570616759	A Grid-connected Solar PV Module with Autonomous Power Management	Pankaj Madaria, Mohit Bajaj, Surbhi Aggarwal and Amit Kumar Singh (NIT Delhi, India)
1570621058	A Survey on Hybrid Renewable Energy Systems for Microgrid Application	Awal Bandara, KTM Udayanga Hemapala and Nalin C. Ekanayake (University of Moratuwa, Sri Lanka)

Technical session-4 29.02.2020 12:30PM-1:30PM

Hall No: 2 Session Chair : Prof. Himanshu Pota

Session Co-chair: Prof. Naresh Kumar

Paper ID	Paper Title	Authors
1570621068	Modular Multilevel Converter Based STATCOM with Hybrid Energy Storage System Considering Unbalanced Loading Condition	Anil Bharadwaj, Nirmalya Dhal and Suman Maiti (IIT Kharagpur, India)
1570621074	BLDC Motor Ceiling Fan Using a Bridgeless Isolated PFC SEPIC Converter	Amit Kumar, Utkarsh Sharma and Bhim Singh (IIT Delhi, India)
1570620708	Optimized Solar PV Based Distributed Generation System Suitable for Cost-Effective Energy Supply	Adikanda Parida and Shibabrata Choudhury (NERIST Itanagar, India), Debashis Chatterjee (Jadavpur University, India)
1570621054	A Novel Meta-heuristic for Optimal Allocation of Distributed Generation in Balanced Distribution Network Considering Hourly Load Variation	Subhodip Saha and Vivekananda Mukherjee (IIT (ISM) Dhanbad, India)
1570623649	A Novel HCC Scheme to Reduce Switching Loss and Harmonics in 1-Phase H-bridge Inverter	Tapas Kumar Mohapatra, Asim Dey and Krushna Mohapatra (Siksha O Anusandhan University, India)
1570621094	Fault Tolerant T-Type Cross Connected Source Nine Level Inverter	Vinay Kumar and Shailendra Jain (SLIET Longowal, India), Sanjeev Singh (MANIT Bhopal, India)
1570621106	Current Spinning and Signal Conditioning Circuit for High-Performance Magnetic Field Sensing	Sagnik Kumar, Gopalaratnam Narayanan, Rangarajan Muralidharan (IISc, India)

Technical session-4 29.02.2020 12:30PM-1:30PM

Hall No: 3 Session Chair : Prof. Ujjwal Kalla

Session Co-chair : Prof. S. K. Gupta

Paper ID	Paper Title	Authors
1570621113	Performance Investigation of Conventional AC Chopper Fed Three Phase Star with Neutral Connected Heating Load Systems	Ujjwal Kalla (IIT Delhi, India) and Rakhi Suthar (Govt. Engineering College Bikaner, India)
1570620950	Prediction of static pressure drop, velocity and flow rate of higher viscous nature of ester oil in power transformers under oil directed cooling conditions	Pavan Fuke, Anil Kumar Yadav and Ipur Anil (NIT Hamirpur, India)
1570616565	Power Quality Concerns with Integration of RESs into the Smart Power Grid and Associated Mitigation Techniques	Mohit Bajaj, Surbhi Aggarwal and Amit Kumar Singh (NIT Delhi, India)
1570621125	Speed Estimator for Direct Torque and Flux Control of PMSM Drive Using MRAC Based on Rotor Flux	Avinash Vujji and Ratna Dahiya (NIT Kurukshetra, India)
1570621119	Modelling and Analysis of Zig-Zag Boost Converter for Battery Charging Applications	Karpana Sivakrishna and Suman Maiti (IIT Kharagpur, India), Efstratios Batzelis (Imperial College London, UK)
1570621122	Study on Sequential Model Predictive Control for Packed U Cell (PUC) Grid Connected Inverter	Siva Kumar Gannamraju and Ravikumar Bhimasingu (IIT Hyderabad, India)
1570616570	Designing of a Solar Energy Based Single Phase Dynamic Voltage Restorer Using Fuzzy Logic Controlled Novel Boost Inverter	Mohit Bajaj and Amit Kumar Singh (NIT Delhi, India)
1570616866	Energy Performance and Economic Analysis of	Pavan Fuke, Anil Kumar Yadav and Ipur Anil (NIT Hamirpur, India)

Technical session-5 29.02.2020 4:00PM-5:30PM

Hall No: 1	Session Chair : Prof. Subrata Mukhopadhyay	Session Co-chair: Prof. A. K. Singh
Paper ID	Paper Title	Authors
1570623842	Design and Testing of Frequency Adaptive Zero-Crossing Detector as a Synchronizing Technique	Hemant Saxena, Alka Singh and Jitendra Rai (DTU Delhi, India)
1570624063	A Case Study on PV System Performance and LCOE of 15.6 kW Hybrid Solar PV System Installed at CST	Gom Dorji and Jigme Zangpo (College of Science and Technology, Bhutan)
1570624092	20 kW, 50 kHz SiC Power Converter for High Speed Switched Reluctance Machine	Syed Shahjahan Ahmad, Chetan Suresh Urabinahatti, G Narayanan (IISc Bangalore, India)
1570625348	Modelling and Control of Two Stage High PFC LED Driver Circuit Using Average Current Control Method Driven by Vienna Rectifier	Vinod Kumar Yadav, Arun Kumar Verma and Udaykumar Yaragatti (MNIT Jaipur, India)
1570616996	Loss Analysis of NPC and T-Type Three-Level Converter for Si, SiC, and GaN Based Devices	Khushboo Kumari, Swagata Mapa and Ramkrishan Maheshwari (IIT Delhi, India)
1570623658	Closed Loop Control of Flyback Converter with PV as a Source	Rajat Singh and Saurabh Bose (NIT Uttarakhand, India)
1570623796	A SMC Based Nine Switch Converter Topology for Reliable and Efficient Control of Hybrid Autonomous System	Soumya Mohanty, Abhijeet Choudhury, Swagat Pati, Sanjeeb Kar and Piyush Paritosh (SOA University, India)

Technical session-5 29.02.2020 4:00PM-5:30PM

Hall No: 2	Session Chair : Prof. Ashwani Kumar	Session Co-chair: Prof. Naresh Kumar
Paper ID	Paper Title	Authors
1570627680	IOT Based MPPT for Performance Improvement of Solar PV Arrays Operating Under Partial Shade Dispersion	Rabindra Nath Shaw and Pratima Walde (Galgotias University, India); Ankush Ghosh (The Neotia University & Jadavpur University, India)
1570624048	Comprehensive Review on Fault Tolerance Capability of Power Converters for DC Microgrid	Siddhant Kumar and Bharat Singh Rajpurohit (IIT Mandi, India)
1570626520	PV and QV Curve Analysis Using Series and Shunt Compensation	Ashwani Sharma, Rahul Kumar, Apurav Mittal and Nikhil Sharma (NIT Kurukshetra, India)
1570621128	Impact of Non-Idealities on the Performance of an Ultracapacitor Based Bidirectional DC/DC Converter	Naresh P, Sai Vinay Kishore N and Seshadri Sravan Kumar V (IIT Hyderabad, India)
1570623939	An Alternative Inverter Control Strategy for Grid Connected Solar Photovoltaic (SPV) System	Soubhik Bagchi (BBIT, India), Debashis Chatterjee (Jadavpur University, India), Rupam Bhaduri (Dayananda Sagar Institutions Bangalore, India) and Pabitra Biswas (Asansol Engineering College, Asansol, India)
1570624146	Analysis of Plug-in Electric Vehicles Participating in Primary Frequency Control of Hydrothermal Power System at Varying Generation Schedule	Mathews Thomas and Sunitha Rajan (NIT Calicut, India), Deepak M (Indian Institute of Space Science and Technology, India)
1570625279	Network Constrained AC/DC Economic Dispatch for DER Based Microgrid	Siddharth Singh and Ashwani Sharma (NIT Kurukshetra, India)

Technical session-5 29.02.2020 4:00PM-5:30PM

Hall No: 3 Session Chair : Dr. Arun Kumar Verma

Session Co-chair : Prof. S. K. Gupta

Paper ID	Paper Title	Authors
1570626522	Economic Dispatch for Multi Heat-Electric Energy Source Based Microgrid	Ashwani Sharma and Siddharth Singh (NIT Kurukshetra, India)
1570620801	Reduce, Recycle & Reuse First Ever Initiative by Any Haryana Govt. Power Utility & Its Outcomes	Amardeep Dahiya, Joginder Kamboj, Rakesh Khanna, Surinder Makkar (UHBVN), Asha Dahiya (BPSMV), Mohinder Dahiya (HAU)
1570623110	Traditional IMC & IMC Based PID Controller Design for Tri-State Boost Converter	Sayan Sarkar (Hong Kong UST, Hong Kong & Wecare Medservice Lp, India); Shiuli Subhra Ghosh (Jindal Stainless Limited, India)
1570616543	Swarm Assisted Positive Sequence Current Component Based Directional Relaying for Transmission Line Protection	Chinta Durga Prasad, Monalisa Biswal (NIT Raipur, India), Paresh Kumar Nayak (IIT Dhanbad, India)
1570621131	Analysis of Conventional Three Phase Star Connected AC Chopper System in Floated Neutral Configuration Feeding Heating Loads	Ujjwal Kalla (IIT Delhi, India) and Rakhi Suthar (GEC Bikaner, India)
1570621136	Space Vector PWM with Common-Mode Voltage Reduction for Six-Phase Drives	Manoj Kumar Chaudhury, Mukesh Kr. Pathak, Girish Kumar Singh (IIT Roorkee, India)
1570622088	Comparison of Advanced Analog Controllers for a DC-DC Boost Converter	Sayan Sarkar (Hong Kong University of Science and Technology, Hong Kong & Wecare Medservice Lp, India); Shiuli Subhra Ghosh (Jindal Stainless Limited, India)
1570616694	Atom Search Optimization Based Study of Frequency Deviation Response of a Hybrid Power System	Bhuvnesh Khokhar, Surender Dahiya (DCRUST, India), K. P. S. Parmar (NPTI, India)

Technical session-6 01.03.2020 11:00AM-12:30PM

Hall No: 1 Session Chair : Prof. Sanjoy Kumar Parida

Session Co-chair: Prof. A. K. Singh

Paper ID	Paper Title	Authors
1570617788	TCSC Based Self Adaptiveness in Particle Swarm Optimization for ATC Enhancement: An Algorithmic Analysis	Naresh Yadav and Neeru Devi (DCRUST Murthal, India) and Ibraheem Dr (Jamia Millia Islamia, India)
1570620770	Performance Evaluation of Thermally Stressed Solid Dielectrics for Transformers	Chilaka Ranga, CH (NIT Hamirpur, India) and Teruvai Manoj (NIT Srinagar, India)
1570620774	Enhancing the Performance of Multi Area AGC in Deregulated Environment Tuned with TCPS Using BFO	Kanika Wadhwa and Sushil Gupta (DCRUST Murthal, India)
1570621115	Ancillary Service Provision Through HVAC Load Control in Building Clusters	Sumedha Sharma, Ashu Verma and Bijaya Panigrahi (IITD, India)
1570610450	Numerical Analysis on Factors Affecting Hydrophobicity and Icephobicity of the High Voltage Insulator	Vinit Srivastava and Bharat Singh Rajpurohit (IIT Mandi, India), Manbir Kaur (TIET Patiala, India)
1570620633	Equilibrium Optimizer for Solving Economic Dispatch Problem	Sanam Agnihotri, Apoorwa Atre and Harish Verma (SGSITS Indore, India)
1570620667	Economic Load Dispatch Using Salp Swarm Algorithm	Soumyabrata Das, Tanmoy Malakar, Anand Kumar, Roshan Singhi, Om Prakash and Priti Das (NIT Silchar, India)
1570616822	Sign Regressor LMS Algorithm Based Adaptive Control Algorithm for Multi-objective Solar PV Generator System Connected to Grid	Rahul Dogra and Bharat Singh Rajpurohit (IIT Mandi, India)

Technical session-6 1.03.2020 11:00AM-12:30PM

Hall No: 2

Session Chair : Prof. Bhim Singh

Session Co-chair: Prof. Naresh Kumar

Paper ID	Paper Title	Authors
1570620641	Unsymmetrical Fault Analysis of PV for Different Transformer Configurations	Sunil Kumar Maurya, Suryanarayana Gangolu, Saumendra Sarangi (NIT Uttarakhand, India)
1570620731	Protection of Inverter Based Distributed Generation During Faults	Nirdesh Singh and Dinesh Kumar Jain (DCRUST Murthal, India)
1570620817	Design and Implementation of Rotor Position Estimation Scheme for PMSM Drive	Ajeet Kumar, Rajesh M Pindoriya and Bharat Singh Rajpurohit (IIT Mandi, India)
1570616875	Effect of Voltage Dip on the Operation of Synchronous Reluctance Motor Coupled to a Constant Torque Load	Pradyumna Ghosh, Anandarup Das and G. Bhuvaneswari (IIT Delhi, India)
1570621104	Fault Location Algorithm for Three Terminal Homogeneous Transmission Lines Using Positive Sequence Components	Purushotham Reddy Chegireddy, Ravikumar Bhimasingu (IIT Hyderabad, India)
1570621114	Analysis of Electrical Tree Growth in Crossed Link Polyethylene Cable Insulation Under Different AC Voltages	Gyana Manjari Sahoo, Subrata Karmakar (NIT Rourkela), Biswajit Sahoo (IGIT), Mrutyunjaya Mangaraj (LIET, Vizianagaram)
1570622609	Transmission Line Protection Schemes Based on Wigner Distribution Function and Discrete Wavelet Transform	Om Prakash Mahela (IIT Jodhpur & RRVPNL, India), Nikita Tailor, Satyanarayan Joshi (GWEC Ajmer, India)
1570622612	Protection of Distribution Feeder Using Stockwell Transform Supported Voltage Features	Om Prakash Mahela (IIT Jodhpur & RRVPNL, India), Bipul Kr., Jaya Sharma (RCEW Jaipur, India), Akhil Ranjan Garg (JNVU Jodhpur)

Technical session-6 1.03.2020 11:00AM-12:30PM

Hall No: 3

Session Chair : Prof. Ashwani Kumar

Session Co-chair : Prof. S. K. Gupta

Paper ID	Paper Title	Authors
1570611287	Effects & Symptoms of the Harmonics of the Diode Rectifier in the Power Quality Issues	Tapas Halder (Kalyani Government Engineering College, India)
1570616567	Cost Based Optimal Dynamic Economic Dispatch with Wind Integration	Naveen Kr., Surender Dahiya (DCRUST Murthal), KPS Parmar (NPTI Faridabad, India)
1570616753	Allocation of Distributed Energy Resources in Deregulated Electric Power System	Komal Singh, Garvita Sharma, Ritesh Baheti, Amit Kumar Singh (NIT Delhi, India)
1570620955	Simplified State-Space Average Model and Control Strategy for the Dual Active Bridge Power Converter	Vrishabh Randive and Rupesh Wandhare (IIT Hyderabad, India)
1570616766	Analysis of Electric Vehicle Charging Station Allocation in Deregulated Electric Power System	Surbhi Aggarwal, Mohit Bajaj and Amit Kumar Singh (NIT Delhi, India)
1570616778	Combined Frequency and Voltage Stabilization of Thermal-Thermal System with UPFC and RFB	Abhineet Prakash and Sanjoy Kumar Parida (IIT Patna, India)
1570617110	Irregular-shaped Particle Motion and Charge Transfer Mechanism in Transformer Oil Under Varying Field	Muhammed Faisal Rahman and Pradeep Nirgude (Central Power Research Institute, UHV Research Laboratory, India)
1570619763	Quasi-oppositional Dragonfly Algorithm: Applied for Frequency Regulation of an Isolated Hybrid Energy Distributed Power System	Dipayan Guha, Shubhi Purwar and Manvi Agarwal (MNNIT Allahabad, India)

Technical session-7 1.03.2020 12:30PM-1:30PM

Hall No: 1	Session Chair : Prof. Sanjoy Kumar Parida	Session Co-chair: Prof. A. K. Singh
Paper ID	Paper Title	Authors
1570621034	Estimation of Partial Shading and Soiling Percentage for a Solar Panel Using an Artificial Neural Network Model	Roshan Mohanty, Mihir Kumar Sahoo and Paresh Kale (NIT Rourkela, India)
1570617870	Robust Controllers for a Single-Stage Boost DC-AC Inverter	Satish Kumar Gudey and Gowramma Dekka (Gayatri Vidya Parishad College of Engineering (autonomous), India)
1570616915	Coiflet Based Deblurring of Insulator Images for Remote Monitoring	Manish Kumar Saini, Jasbir Singh Saini and Rahul Kumar (DCRUST Murthal, India)
1570612995	Design and Implementation of Biquad Filter for Shunt Compensation Under Normal and Distorted Grid Conditions	Ankita Arora and Alka Singh (DTU Delhi, India)
1570611112	Integrated Battery Charger with Delta Connected BLDC Motor for Electric Vehicle Applications	Virendra Singh, Narsa Reddy Tummuru and Bharat Singh Rajpurohit (IIT Mandi, India)
1570619164	An Improved Grid Synchronization Method of Grid-interactive Power Converter System During Distorted Grid Conditions	Sridharan K. and B. Chitti Babu (IITDM Kancheepuram, India)
1570621153	Load Frequency Control & Automatic Voltage Regulation for a Single Area Power System	Himanshu Grover, Ashu Verma and Trilochen Bhatti (IIT Delhi, India)
1570621088	DTC-SCIM Drive Using Classical Switching Table & SVPWM Methods Based on PI Controller	Lokendra Kr. (DCRUST Murthal), Hitendra Singh and Puneet Kumar (M I E T Meerut, India), Saurabh Mani Tripathi (KNIT UP, India)

Technical session-7 1.03.2020 12:30PM-1:30PM

Hall No: 2	Session Chair : Prof. Bhim Singh	Session Co-chair: Prof. Naresh Kumar
Paper ID	Paper Title	Authors
1570619637	Adaptive Minor Component Based Neural Network Controller for Standalone Micro Hydro System	Praveen Kumar (Govt. Engineering College Bikaner, India); Ujjwal Kalla (IIT Delhi, India)
1570620975	Robust Optimal Controller for Frequency Regulation of a Isolated Power System by Using Kharitonov's Theorem	Dipayan Guha and Sudhir Singh (MNNIT Allahabad, India)
1570619825	A Case Study on Power Quality Analysis for 600 kW Grid Connected Wind Farm	Gom Dorji, Jigme Zangpo (College of Science and Technology, Bhutan), Rajesh M Pindoriya and Bharat Singh Rajpurohit (IIT Mandi, India)
1570621049	Effect of Shifting Gate Pulse on Average Currents in Coupled SIDO Boost Converter	Nupur and Shabari Nath (IIT Guwahati, India)
1570619908	Multi-objective Planning Model for Reconfigured Microgrids with Distribution Generation and Capacitors Under Uncertainty Environment	V. V. S. N. Murty and Ashwani Sharma (NIT Kurukshetra, India)
1570620106	Optimal DER Sizing and Dispatch of CHP for a Remote Educational Microgrid	Arun Kumar V, Sumedha Sharma and Ashu Verma (IIT Delhi, India)
1570620876	An Adaptive Inverse-Time Overcurrent Protection Method for Low Voltage Microgrid	Naveen Kaushik and Dinesh Kumar Jain (DCRUST Murthal, India)
1570624057	Recognition of Voltage Sag Causes Using Vector Quantization Based Orthogonal Wavelet	Manish Kumar Saini and Akanksha Aggarwal (DCRUST Murthal, India)

Technical session-7 1.03.2020 12:30PM-1:30PM

Hall No: 3 Session Chair : Prof. Sukumar Mishra

Session Co-chair : Prof. S. K. Gupta

Paper ID	Paper Title	Authors
1570620565	Design and Control of a BLDC Motor Drive Using Hybrid Modeling Technique and FPGA Based Hysteresis Current Controller	Adil Usman and Bharat Singh Rajpurohit (IIT Mandi, India)
1570620629	Harmonic Analysis of a BLDC Motor Under Demagnetization Fault Conditions	Adil Usman, Bharat Singh Rajpurohit and Vivek Kumar Sharma (IIT Mandi, India)
1570620654	Parameter Enhancement of Solar Array Under Partial Shading Conditions	Venkata Madhava Ram Tatabhatla, Anshul Agarwal and Tirupathiraju Kanumuri (NIT Delhi, India)
1570620874	Integral Sliding Mode Control for Uncertainty Mitigation in Switched Boost Inverters	Shivam Chaturvedi and Deepak Fulwani (IIT Jodhpur, India)
1570620656	Dynamics Stability Study of Isolated Rural Microgrid Based on Load Characteristics	Vinit Kumar Singh, Ashu Verma and T. S. Bhatti (IIT Delhi & NIL, India)
1570610448	Investigation of Factors Affecting Nano-dielectric Strength Under High Voltage Stress Using Finite Element Method	Vinit Srivastava and Bharat Singh Rajpurohit (IIT Mandi, India), Manbir Kaur (TIET Patiala, India)
1570620734	Model Order Reduction Based LFC Analysis of an Autonomous Microgrid	Bhuvnesh Khokhar and Surender Dahiya (DCRUST Murthal, India) and K. P. Singh Parmar (NPTI Faridabad, India)
1570621038	PV System Fault Classification Using SVM Accelerated by Dimension Reduction Using PCA	Paresh Kale, Rahul Mandal, Nikhil Sahu and Niraj Anand (NIT Rourkela, India)