

TT1: Power Converter		Venue: CRI, LHC-C (Session Chair: Arun Verma, IIT Jammu)
Date & Time 19-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	967	Two-Stage Module-Based Buck-Boost Converter For Cell Equalization Of Series Connected Cells For Electric Vehicle Battery Pack Applications; Ashis Kumar Nayak, Kalpana R, and Kenguru Manjunath
09:15-09:30	686	Bootstrap Gate Driver for GaN-based Solar Inverter: Design Challenges and Solutions; Chirag Kishor Sarode, Akash Gangwar, Abhishek Arvind Chanekar, Sandeep Anand
09:30-09:45	620	Soft and Hard-Switched Synchronous Buck Converter Comparison for USB Power Delivery; Harshada Vijay Ahire, Utsab Kundu, Vinod John, Anant Kamath and S. Ramkumar
09:45-10:00	777	A Multifunctional Current Fed Triple Active Bridge Converter for EV application; Rajat Kumar Shukla, Dipankar Saha and Baylon G. Fernandes
10:00-10:15	253	Design and Analysis of Soft Switched Current-Fed Full Bridge DC-DC Converter for Renewable Energy Applications; Mahidhar Reddy Gandavarapu, K V Anandkrishnan, Sugali Harinaik, Shelas Sathyan
10:15-10:30	693	A Modified Dual Switch High Gain Boost Converter with Control Liberty for PV Application; Atul Kumar Lal and Anmol Ratna Saxena
TT2: Power Devices, Passive Components, EMI/EMC and Packaging		Venue: LH1, LHC-C (Session Chair: Dr. Suwendu Samanta, IIT Kanpur)
Date & Time 19-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	453	Planar Litz Inductor Design for High-Frequency Soft-switched PWM Converter; Nithyadas P V, Utsab Kundu, Vinod John and Vishnu Mahadeva Iyer
09:15-09:30	658	A passive dv/dt Filter For Integrated Induction Motor Drive Fed From 3-phase 2-level GaN Based Inverter; Shambhunath Dutta and Apurv Kumar Yadav
09:30-09:45	521	Design of a Low Leakage Pulse Transformer for Gate Driving of Multiple SiC MOSFETs for Induction Heating Applications; Arun K Paul and Sai Ram Boggavarapu
09:45-10:00	607	Analysis of IGBT and GaN Based Hybrid Switch under Diverse Switching Conditions; Anudeep Kumar Bandrupalli; Mohd Alam; and Narayana Murthy Malladi
10:00-10:15	655	Active Gate Driving Technique for the Voltage Balancing of Series Connected GaN Devices for Higher Voltage Application; Siddhartha Suyal and Apurv Kumar Yadav
10:15-10:30	741	Experimental Method for Accurate Measurement of High-Frequency Bridge Loss; Uppal Das; Manish Mandal; Shailesh Ghotgalkar and Kaushik Basu
TT3: Electrical Machines and Industrial Drives		Venue: LH2, LHC-C (Session Chair: Sashidhar Sampathirao, IIT Goa)
Date & Time 19-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	44	A Novel Trapezoidal EMF Flux Switching Brushless dc Motor for a Pedal-Assist E-Bicycle; Ansh Rajdev and Sashidhar Sampathirao
09:15-09:30	155	Torque Ripple Reduction in Delta Connected FPIM under Double Phase Fault with EV as load; Jaheera Shaik and R Chudamani
09:30-09:45	188	Impedance Distortions based Interturn Fault Diagnosis in PMSM Drive; Shivateja Manala and Jeevanand Seshadrinath
09:45-10:00	204	An Auxiliary Circuit for Improving Torque Per Ampere of Switched Reluctance Machines Shashank Kurm and Shailendra Kumar
10:00-10:15	238	Comparative Study of Q-PLL and DSOGI With SMO based Sensorless Control of PMSM Drive; Abhishek Panchal; Siva Rama Krishna Merugu; Jeevanand Seshadrinath and Sumit Saroha
10:15-10:30	239	Performance Analysis of A Ferrite Assisted Synchronous Reluctance Motor For Mid-Mounted Electric Two-Wheeler; Rachna Panwar; Rajath Kashyap; Ravi Prasad Sharma and Mahalingam Koushik B
TT4: Transportation		Venue: LH3, LHC-C (Session Chair: Sheron Figarado, IIT Goa)
Date & Time 19-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	135	Design and Analysis of a Novel Multi-Functional Onboard Battery Charger for Electric Vehicles Marrapu Sai Harsha Naidu; Josephine R and Nikitha Devarakonda
09:15-09:30	152	A Bridge-Structured Switched-Capacitor Voltage Equalizer for Li-ion Battery Strings Abhaya Kumar Sahoo and V. Sankaranarayanan
09:30-09:45	171	Design of Feedback Controller for On-board Wireless EV charging systems using Adaptive Random Search Algorithm; P Srinivasa Rao Nayak and Ganesh Babu Mahaparathi
09:45-10:00	173	Hotel Load Converters for Indian Railways Dakshina Murthy Bellur and Latif Shaikh
10:00-10:15	187	Performance Comparison of FOC and DTC Techniques for SynRM in EV applications Igra Sheikh; Siva Rama Krishna Merulu and Jeevanand Seshadrinath
10:15-10:30	232	A Control Technique for Achieving ZVS and Reduced Conduction Loss in Dual Active Bridge for EV Applications; Kumar Maddi; Adarsh Dubey; Karthik Singh Parihar; Jahangeer Ahmad Dar; Apurv Kumar Yadav and Mukesh Pathak
TT5: Control and Automation		Venue: LH4, LHC-C (Session Chair: Josep Ojo, USA)
Date & Time 19-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	111	Fractional IMC-PIDA Control Technique for Mitigation of Time Delay Attack in Power System Vivek Kumar; Yogesh V. Hote and Suvra Pattanayak
09:15-09:30	119	Hybrid Deep LSTM-XGBoost Based Fault Line Identification and Distance Estimation in Grids with Distributed Generators Pavan Kumar Bais and Narendra D Londhe
09:30-09:45	233	A Finite Control Set Based Model Predictive Control for Reducing Inductor Current Ripple in Dual Active Bridge Converter Somnath Meikap; Chandan Kumar; Fernanda Carnielutti and Jose Rodriguez
09:45-10:00	246	Enhancing Load Frequency Control with Non-linear ADRC for Cyber-attacks Mitigation Suvra Pattanayak; Yogesh V. Hote; Sateesh K. Peddoju and Vivek Kumar

10:00-10:15	249	Demand Response Based on Anomaly Detection and Non-Intrusive Load Monitoring <i>Gautam A Raiker; Deepti L Ravi ; Vasundhara V Baligar and B. Subba Reddy</i>
10:15-10:30	250	A cyber-resilient control scheme for AGC of hydropower system <i>Pulakraj Aryan and Thanga Raj Chelliah</i>
TT6: Renewable Energy Systems and Energy Storage		Venue: LH5, LHC-C (Session Chair: Dr. Senthil, NIT Trichy)
Date & Time 19-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	55	A Novel Hybrid Virtual Synchronous Control Strategy for Enhanced Grid Resilience in Renewable Energy Integration <i>Lavanya M C; Sashidhar Sampathirao ; Deea Kurup and Rajesh Katyal</i>
09:15-09:30	88	Performance Evaluation of a Hybrid Renewable Energy System with Different Storage Technologies for an off-grid Rural Household <i>Surajit Sannigrahi ; Sriparna Roy Ghatak and Parimal Acharjee</i>
09:30-09:45	116	Adaptive Reconfigurable Battery Pack Employing Switching Matrix Circuit to Maximize the Capacity of the Battery Bank <i>Pravin Murugesan ; Anil Marneni and Senthil Kumar Subramaniam</i>
09:45-10:00	117	Bayesian inference framework for probabilistic power flow analysis for microgrid uncertainty problem <i>Neeraj Gupta</i>
10:00-10:15	145	Effective PLL-Based Control Technique for Seamless Transition Between Grid-Connected and Islanding Modes <i>Deepak Gehlot; Mukesh Pathak ; Shoubhik Mukherjee ; A S Krishnapriya and Esvar Rao</i>
10:15-10:30	153	Single Cell Development Platform for SOC Estimation of Li-ion Battery <i>Amrit Raj and Kunwar Aditya</i>
TT7: Smart Grids & Power Quality		Venue: LH6, LHC-C (Session Chair: Dipti Saxena, MNIT Jaipur)
Date & Time 19-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	68	A novel six-switch three-output DC-DC converter with isolated buck characteristics and its derivation from a novel four-switch two-output non-isolated DC-DC converter with modified boost and complimentary buck operation, <i>Arkabrata Dattaroy and Avik Bhattacharya</i>
09:15-09:30	856	Photovoltaic Driven Versatile Single In Dual Out Non-Isolated Converter for Electric Vehicle Charging System; <i>Ramanathan G, Bharatiraja C and Sivaprasad Athikkal</i>
09:30-09:45	129	Simplified Average model of Voltage Source Inverter for Controller Design <i>Avishek Munsri, Rohan kumar, and Kunwar Aditya</i>
09:45-10:00	154	Knowledge Inference Concept of Control Sharing: Mitigation of Power Quality Disturbances in Grid-Tied PV Systems <i>Ajitesh Pandey, and Rajendra Kumar Pandey</i>
10:00-10:15	185	Optimal Reactive Power Control in Standalone Hybrid Power System by using Harris Hawks algorithm tuned Statcom tilt controller <i>Sachin G M, Abhik Banerjee, and Deepa N S N</i>
10:15-10:30	225	A Simplified Multi-objective Technique for Placement of RESs and Capacitor Banks in Unbalanced Radial Distribution Network <i>Pappu Kumar Saurav, Swapna M, and Partha Kayal</i>
TT8: Power Engineering Educations and Issues		Venue: LH7, LHC-C (Session Chair: Dinesh Kumar, Danfoss, Denmark)
Date & Time 19-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	718	Learning-Platform for Mixed Domain Control of Power Electronics Converters <i>Sumedh Amrutrao Awathare; Arnab Dey; NITHYADAS P V ; Vihan Shahu and Utsab Kundu and Vinod John</i>
09:15-09:30	378	Novel Converter Topology for Bipolar DC Programmable Power Supply Application <i>Nimmy Paulson ; Rijil Ramchand and Harish and Sudhakaran Nair</i>
09:30-09:45	395	PV-Solar based Hybrid Telecom Power Plant for Roof-top Mobile Towers <i>Rajendra R Sawant ; Bhalchandra Chaudhari ; Dr. Yerranreddy Srinivasa Rao ; Darshana Sankhe and Anshal Padole</i>
09:45-10:00	678	Wide duty ratio DC DC Converter for ultracapacitor based EV drive <i>Nithin T, MoonSneha Ashok, nikhil sasideharan and Shreelakshmi MP</i>
10:00-10:15	616	A High-Voltage Bipolar Pulsed Power Generator Based on a Three-level F-type Inverter <i>Priyanka Roy and A Bandyopadhyay Priyanka Roy and A Bandyopadhyay</i>
10:15-10:30	601	Comparison of Sub-modules for Cascaded Multi-level MVAC to DC Solid State Transformer <i>Harisyam P V, Surjakanta Mazumder, Abhay Gupta, Saichand Kasicheyanula, Shashidhar Mathapati and Kaushik Basu</i>
TT9: Applications of AI and ML Techniques to Power Electronics		Venue: LH8, LHC-C (Session Chair: Dr. Jora M Gonda, NITK)
Date & Time 19-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	42	Harmonic Optimization in a Nine-Level Cascaded H-Bridge Inverter: Leveraging Support Vector Machine Algorithm with LSPWM Technique, <i>Rishiraj Sarker (Indian Institute of Technology Roorkee)*; Subhabrata Pal and Avik Bhattacharya</i>
09:15-09:30	92	Artificial Intelligence-Driven Inductor Current Prediction in HD-SPWM-Controlled 3-Level DAB Converter for Fast EV Charging Application, <i>Subhabrata Pal ; Rishiraj Sarker and Avik Bhattacharya</i>
09:30-09:45	294	Multi-Area Load Frequency Control using an Adaptive Reaching Law-Based Integral Terminal Sliding Mode Scheme <i>Tushar Kanti Roy, Md Apel Mahmud and Amanullah Maung Than Oo</i>
09:45-10:00	252	Enhancing Cyber Security in DC Microgrids With Intelligent Control Against False Data Injection Attacks <i>Venkata Siva Prasad Chowdary Machina ; Suprabhath Sriranga Koduru ; Sreedhar Madichetty and Sukumar Mishra</i>
10:00-10:15	525	Edge Computing enabled Battery State of Charge (SOC) estimation using TinyML techniques, <i>Anshul Kumar Yadav; Rajesh Kumar ; Anil Kumar Saini; P Ragupathy ; Aashish Ranjan ; Anand Abhishek and Dhiraj Sangwan</i>
10:15-10:30	704	A Data Driven Energy Efficient Control of Induction Motor Drive with Vector Control, <i>Arka Dutta ; Bheemaiah Chikondra ; Pradipta Kumar Pal and Kartick Chandra Jana</i>

TT1: Power Converter		Venue: CRI, LHC-C (Session Chair: Avanish Tripathi, IIT Delhi)
Date & Time 19-12-2024, 15:30-17:30		
Time Slot	Paper ID	Paper Details
15:30-15:45	650	Active Power Decoupling for Reduced-Switch Current-Fed Switched Inverter with Enhanced Gain <i>Pramit Nandi, Ravindranath Adda, Cilaveni Satish Chandra and Vaishnavvignesh G Iyer</i>
15:45-16:00	563	A Flying Capacitor Based Neutral Voltage Balancing System for Three Phase Four Wire Inverter with State Feedback Control <i>Ribhu Chakraborty and Dr. Arun Rahul S</i>
16:00-16:15	408	Design of High-Frequency Current Transformer for Capacitive Wireless Power Transfer Systems <i>Subhabrata Basak, Utsab Kundu and L. Umanand</i>
16:15-16:30	765	Modeling and Design of Internal Energy Balance Controller with Circulating Current Suppression for Modular Multilevel Converter <i>Pranav B Narkhede and Amit Kumar Jain</i>
16:30-16:45	696	Soft Switched Common Ground Transformer Less Single-Phase PV Inverter <i>Raghavendra Bandaru , Prajyot Gaonkar, Sreeraj E. S. and Puneet Kumar Goel</i>
16:45-17:00	595	A Resonant Reset Forward Converter with Ultra-High Conversion Gain <i>Shubham Srivastava, Mandeep S. Rana and Santanu K. Mishra</i>
17:00-17:15	552	Reverse Conduction Loss and (dv/dt) Induced False Triggering Protection of GaN-HFET Based Power Converter for EV Charging <i>Subhendu Bikash Santra, Kirshan Kumar Gautam, Dinkar Prasad and Debashis Chatterjee</i>
17:15-17:30	429	PSFB Converter based Programmable DC Power Supply; <i>Aman Maurya and Harish Sudhakaran Nair</i>
TT1: Power Converter		Venue: LH1, LHC-C (Session Chair: Vinod Kumar Bussa IIT Patna)
Date & Time 19-12-2024, 15:30-17:30		
Time Slot	Paper ID	Paper Details
15:30-15:45	339	Design and Analysis of an Asymmetrical 21-Level Multilevel Inverter With Reduced Switch Count <i>Swapan Kumar Baksi, Dr.Ranjan Kumar Behera and Utkal Ranjan Muduli</i>
15:45-16:00	742	High Gain DC-DC Converter Fed PMSM Drive with Field-Oriented Control Techniques for Fuel Cell-based Electric Vehicles <i>Madhav Kumar, Kaibalya Prasad Panda, Akash Singh, Ritula Thakur and Gayadhar Panda</i>
16:00-16:15	602	Generalization of Multiple Series-Connected Three-Level Boost Modules <i>Sachin Dhyani and Dr. Shabari Nath</i>
16:15-16:30	611	Implementation of Current Sensorless Level Shifted PWM Strategy for Modular Multilevel Converter <i>Pranav B Narkhede and Amit Kumar Jain</i>
16:30-16:45	236	A Fault Tolerant Multilevel Inverter for Preserved Rated Power Output During Post-Fault <i>Balram Kumar, Sankar Peddapati and Prangya Mohanty</i>
16:45-17:00	669	Small Signal Modeling of LLC Converter based on Time Domain Analysis and Equivalent Circuit Reduction <i>Preethi Eashwar, Sanjeet Singh, Naveen Kothuri and Kaushik Basu</i>
17:00-17:15	647	A Seven-level Triple Boost Common Ground Inverter without H-Bridge <i>Mohammad Zaid, Muneeb Afroz Bhat, Mohammad Anas Anees, Atif Iqbal, Adil Sarwar and Saad Mekhilef</i>
17:15-17:30	421	A Reduced Stage Half-Bridge based Isolated Interleaved Totem-pole Unidirectional AC-DC Converter <i>Gyana M Sahoo and Vivek Agarwal</i>
TT3: Electrical Machines and Industrial Drives		Venue: LH2, LHC-C (Session Chair: Amarendra Edpuganti, IIT Kanpur)
Date & Time 19-12-2024, 15:30-17:30		
Time Slot	Paper ID	Paper Details
15:30-15:45	260	Sensorless Speed Control of Brushless DC Motor using Artificial Neural Network Predicted Back EMF <i>Sindhu M R; Md Akhthar Ali and Duvvuri S P Ramakrishna</i>
15:45-16:00	284	An Improved Model Predictive Current Control for Medium-Voltage Motor Drives <i>Hoang Le, Apparao Dekka and Deepak Ronanki</i>
16:00-16:15	296	Dynamic Inductance Model for Synchronous Reluctance Motor Control; <i>Sonalika Singh; Ritesh Kumar Keshri; Vijay Borghate and Chandan Chakraborty</i>
16:15-16:30	298	State Feedback Speed Control of PMSM using Multithreaded Controller <i>Harikrishnan S and Arun Rahul S</i>
16:30-16:45	823	Dynamic Stator Resistance Adaptation in Sensorless Direct Torque Control of SynRm <i>Asif Khan Kayamkhani and Srirama Srnivas</i>
16:45-17:00	832	A Design Procedure for Double Stator Axial Flux Switched Reluctance Motor <i>Vinayak Kumbhar and Parthasarathi Sensarma</i>
17:00-17:15	348	Minimization of Torque Ripple in Dual Inverter Fed High-Power Wound Rotor Induction Motor Drive <i>Saunhya Tripathi and Amit Kumar Jain</i>
17:15-17:30	351	Analytical Prediction of the Unsaturated Inductance Profile of a Switched Reluctance Machine Using a Flux-Tube-Based Method <i>Samrat Das and Gopalaratnam Narayanan</i>
TT3: Electrical Machines and Industrial Drives		Venue: LH3, LHC-C (Session Chair: Deepak Ronanki, IIT Madras)
Date & Time 19-12-2024, 15:30-17:30		
Time Slot	Paper ID	Paper Details
15:30-15:45	547	Optimized Voltage Harmonic Injection Strategies to Mitigate Speed Fluctuations in PMSM EV Drives <i>Alok Ranjan and Vijaya Bhaskar Devara</i>

15:45-16:00	600	Modified MTPA Controlled Interior Permanent Magnet Synchronous Motor Drive for Electric Vehicle Application Considering Magnetic Saturation <i>Sai Chandu Kadupu; Vaishnav K S; Nilesh Pandey and Piyush Kant</i>
16:00-16:15	617	Synchronized IPMSM Drive Operation for EVs Over Complete Speed Range <i>Vinit Vivekanand Kavalekar and Krishna Raj Ramachandran Potti</i>
16:15-16:30	645	A Novel 9-Level Multilevel Inverter for Water Pumping System <i>Alluri Hemanth Kumar Raju; Venugopal Reddy Barry; Suresh Mikkili and Gadiraju Harish Kumar Varma</i>
16:30-16:45	747	Wide Speed Range Operation of PMASynRM for Electric Vehicle Application; <i>Vaishnav K S; Sai Chandu Kadupu; Vivek Chaudhary and Piyush Kant</i>
16:45-17:00	661	Detection of Stator and Rotor Winding Faults by Monitoring Air-gap Flux Spectrum of Slip-ring Induction Motor <i>Tushar Gulabrao Vilhekar and Makarand Ballal</i>
17:00-17:15	671	Enhancing Performance of Interior Permanent Magnet Synchronous Machines Through Rotor Surfacing and Flux Guide Optimization <i>Om Jee Singh and Praveen Kumar</i>
17:15-17:30	721	Precision Power Amplifier with Enhanced Current Capacity for Characterization of Magnetic Materials <i>Aditya Raj; Shahjahan Ahmad Syed and Gopalaramam Narayanan</i>

TT4: Transportation **Venue: LH4, LHC-C (Session Chair: K Chinmaya, IIT BHU Varanasi)**

Date & Time 19-12-2024, 15:30-17:30

Time Slot	Paper ID	Paper Details
15:30-15:45	264	Estimation of Transmitter Coil Separation for Enhanced Dynamic Wireless Power Transfer; <i>Utkarsha Bulkunde and Vivek Agarwal</i>
15:45-16:00	288	CLOSED-LOOP CONTROLLER FOR BIDIRECTIONAL WEINBERG DC-DC CONVERTER FOR SPACE SATELLITE APPLICATION; <i>K V ANAND KRISHNAN ; SHARUK SHAIK ; Shelas Sathyan (NIT-Tiruchirappalli)*; Dibyanjan Senapati and VENKATA SASTRY VADLAMANI</i>
16:00-16:15	291	Anti-Resonant Tank-based Wireless Charging of EVs for Ultra-Wide Voltage Applications; <i>Sunil Kumar Gautam and Moumita Das</i>
16:15-16:30	312	Model Predictive Controlled Level-3 Reconfigurable Battery Charger for Future Electric Transportation; <i>HARISH KARNEDDI and Deepak Ronanki</i>
16:30-16:45	317	Battery-Ultracapacitor fed Parallel Active Interleaved Bidirectional Converter Controlled BLDC Motor for E-Bike Application; <i>Pradyumna Kumar Behera; MONALISA PATNAIK (National Institute of Technology, Rourkela)*</i>
16:45-17:00	324	Fast Charging of Electric Vehicles Using a Multi-Winding Transformer <i>TASADUQ HUSSAIN; Ridam Kumari and Anandarup Das</i>
17:00-17:15	383	Optimized Model Predictive Current Control for Enhanced Light Commercial Vehicle Performance <i>Alok Ranjan and Vijaya Bhaskar Devara</i>
17:15-17:30	386	A Combined Control for Efficiency Improvement of Integrated Three-Port Dual Active Bridge Converter; <i>Kamran Asad; Nachiketa Deshmukh; Mayank Deo; Pramod Chaudhary and Rakesh Maurya</i>

TT4: Transportation **Venue: LH5, LHC-C (Session Chair: Kunwar Aditya, IIT Jodhpur)**

Date & Time 19-12-2024, 15:30-17:30

Time Slot	Paper ID	Paper Details
15:30-15:45	397	Bidirectional Dual-Input DC-DC Converter for Ultra-capacitor/Battery HESS in Electric Vehicles; <i>Raj Moyal; PUSHPANT KUMAR; Karthik Singh Parihar and Mukesh Pathak</i>
15:45-16:00	402	Optimized DSSq Transmitter Coil-based Charging Pad Scheme to Mitigate Misalignment Issues for Wireless EV Chargers; <i>Rajanikant Rajanikant and Vivek Agarwal</i>
16:00-16:15	442	Renewable Energy-Based Hybrid Power Conversion System for Induction Motor Driven Light Electric Vehicle; <i>SHYAMANTAK R BARMAN; Anish Ahmad; Asim Datta and Vinod Kumar Bussa</i>
16:15-16:30	466	Optimal Charging Station Locations for Different Battery Sizes of Electric Vehicles in a Road Network; <i>Adepu Vamshi and Jayaram Nakka</i>
16:30-16:45	491	Low Ripple Predictive Torque Control of MLI-fed Induction Motor for Marine Propulsion Systems; <i>Hoang Le; Apparao Dekka and Deepak Ronanki</i>
16:45-17:00	498	A Novel Reconfigurable Inductive Power Transfer System with Pulse Density Modulation for Constant Current and Constant Voltage Charging Applications; <i>Rakesh Pulletikurthi and Deepak Ronanki</i>
17:00-17:15	504	Traction-Braking of an EV in Mountainous Terrain with Hybrid Energy Storage System; <i>Md Irshad Ansari and Himanshu Misra</i>
17:15-17:30	534	Adaptive Sliding Mode Controlled On-Board Dual Stage EV Charger with Enhanced Power Quality; <i>Akshay Chabukswar; Jaydeep Kukde; Praveen Vankadari; Rupesh Wandhare; Ravikumar Bhimasingu and Jose Titus</i>

TT5: Control and Automation **Venue: LH6, LHC-C (Session Chair: Ravita Lamba, IIT Roorkee)**

Date & Time 19-12-2024, 15:30-17:30

Time Slot	Paper ID	Paper Details
15:30-15:45	346	Analysis of Control Methods for BLDC Motors in Electric Vehicle Powertrain Systems <i>Koushik S; Santhosha Kumar A; Soumitra Das and Kavita Nanshikar</i>
15:45-16:00	425	Simultaneous Automatic Synthesis of 2-DOF QFT for Unstable Maglev system <i>Sai Lakshmi; Jeyasenthil Ramamurthy; Tarakanath Kobaku and Vivek Agarwal</i>
16:00-16:15	479	Unified Active Disturbance Rejection Control Strategies for Time-Varying Disturbances: Case Study on a DC-DC Boost Converter <i>Faraz Haider and Ahmad Ali</i>

16:15-16:30	626	Generating High Switching Frequency by Integration of FPGA with DSP using SPI <i>Mahendra Patel; Sachin Dhyani and Shabari Nath</i>
16:30-16:45	672	Dynamic Surface Sliding Mode Control Scheme for Load Frequency Control of Multi-Area Grids <i>Dip Kumar Biswas; Sanjoy Debbarma and Piyush Pratap Singh</i>
16:45-17:00	868	Trajectory Tracking Controller Design for a Ball-Plate Balancing System using ANFIS <i>Kaushik Halder and Felix Orlando Maria Joseph</i>
17:00-17:15	872	Design and Development of a Cost-Effective AC/DC Current Probe for Academia <i>Sidharth S; Libby Zacharia Saji ; Hadi Shamal; Aadarsh Jayadeep and Harish Sudhakaran Nair</i>
17:15-17:30	959	Three-Level Boost Converter for EV Charging in Bipolar Microgrids <i>Vinod S Patil</i>

TT6: Renewable Energy Systems and Energy Storage Venue: LH7, LHC-C (Session Chair: Santosh Singh, IIT BHU Varanasi)

Date & Time 19-12-2024, 15:30-17:30

Time Slot	Paper ID	Paper Details
15:30-15:45	165	A Three-Winding Based Triple Active Bridge Converter for Multipurpose Electric Vehicle Charger <i>Ranjeeth Kumar Sha; Shashank Kurm and Shailendra Kumar</i>
15:45-16:00	177	Seamless Operation and Improved Control of a Standalone Solar-Wind-BES Driven 3P4W System Designed for Remote Onshore Island Applications <i>Subhadip Chakraborty; Bhim Singh and Bijaya Ketan Panigrahi</i>
16:00-16:15	192	Securing BESS Modules: Anomaly Detection in Cell Voltages through Statistical Analysis <i>Sarthak Chopra; Sarnaduti Brahma and Rishi Relan</i>
16:15-16:30	213	Ageing Estimation of Transformer Oil by Ladder Phenomena <i>Sandipan Kr Paul; Biswajit Chakraborty; Subhajit Maur; Biswendu Chatterjee; Sovan Dalai and Arpan Pradhan</i>
16:30-16:45	237	Speed Control of PV-Fed BLDC Motor with Energy Storage Integration Using Modified Adaptable Step-Size P&O MPPT Technique <i>Ayush Purwar; Risha Mal and Saheli Ray</i>
16:45-17:00	275	Binary Search-based adaptive P&O MPPT algorithm for TLBC-based Photovoltaic system <i>Vaishnavignesh G Iyer; Cilaveni Satish Chandra ; Pramit Nandi; Ravindranath Adda and Praveen Tripathy</i>
17:00-17:15	290	The Study of Optimizing Profit for Solar-Energy Integrated Battery Swapping Stations <i>Ankita Singh; Premalata Jena; Ravi Prakash Singh and Sri Nivas Singh</i>
17:15-17:30	313	Virtual Synchronous Generator based PV-Battery System with a Current-Fed Switched Inverter <i>Batta Sivaprasad; N K Swami Naidu; Santosh K Singh; Vulavakayala siva and Naveen Yalla</i>

TT7: Smart Grids & Power Quality Venue: LH8, LHC-C (Session Chair: Rajeev Kumar Singh, IIT BHU)

Date & Time 19-12-2024, 15:30-17:30

Time Slot	Paper ID	Paper Details
15:30-15:45	234	AC Short-Circuit Fault Detection and Isolation in Islanded Microgrid <i>Lakshmi kant Rao and Chandan Kumar</i>
15:45-16:00	240	Optimizing EV Charging Power Quality with Enhanced PLL-Driven Active Power Filter <i>Alok Ranjan, Vijaya Bhaskar Devara, Amitesh Prakash; and Utkal Ranjan Muduli</i>
16:00-16:15	837	Net Zero Energy Consumption for MW Scale Solar PV Supported Network Through Utility Grid Based Banking, <i>Sourav Ghimirey; Avaniash Tripathi and Rabindra Mohanty</i>
16:15-16:30	254	Performance Comparison of State-Observer Algorithms for Mitigation of False Data Injection Attacks on Automatic Generation Control System <i>Upasana Sarma and Chandrasekaran S</i>
16:30-16:45	98	Bidirectional Proportional Multi-SOGI Based OCC for LV PV-STATCOM with Trapezoidal Modulation <i>Guddy Satpathy and Dipankar De</i>
16:45-17:00	380	Optimal DG Placement and Sizing for Multi-objective Performance Enhancement of Radial Distribution Systems <i>Amit Chakraborty, Saheli Ray, Ayush Purwar, and Pappu Kumar Saurav</i>
17:00-17:15	434	Design of ACE-based neighborhood microgrid controller towards self-resilient net zero grid <i>Ambika Biswas Neela, Utakarsh Thakare, Sachin Srivastava, Anupama Kowli, and Pallavi Bharadwaj</i>
17:15-17:30	490	LCL Filter with Trap Branch for Effective Harmonic Suppression in Grid-Connected Inverters <i>Mrinal Kanti Rajak, Roshan Kumar, and Rajen Pudur</i>

TT1: Power Converter		Venue: CR1, LHC-C (Session Chair:Dr. Bhim Singh IIT Delhi)
Date & Time 20-12-2024, 09:00 - 10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	738	Reduced Footprint Extended Arm Thyristor Leg Converter A VSC with Enhanced Power Handling Capacity for HVDC Applications; <i>Shourya Sharma, Siba Kumar Patro and Anshuman Shukla</i>
09:15-09:30	625	Improved Phase-Clamping PWM Techniques with Space Vector Approach for Five-Phase System; <i>Sourabh Ashok Sadale , Devendra R Dhore, and Ramsha Karampuri</i>
09:30-09:45	323	Reconfigured Series Stacked energy Buffer (SSB) for Voltage drop Compensation; <i>Saprativ Saha and Santosh K Singh</i>
09:45-10:00	318	A Seven Level Symmetrical Reduced Switch MLI for Grid-Tied Application; <i>Pragya Gawhade, Aditya Sirsa; Anchal Raghuwanshi, Amit Ojha, Sharvendra Kumar Omre and Ravi Kumar Gupta</i>
10:00-10:15	292	Grid Emulator-based Testing of Power Factor Correction Circuit; <i>Cilaveni Satish Chandra, Vaishnavvignesh G Iyer, Ravindranath Adda and Praveen Tripathy</i>
10:15-10:30	231	Design and Analysis of A Novel Bi-Directional High Gain DC-DC Converter For Renewable Applications; <i>Manikanta Kuraganti, Amit Kumar, Ramulu Chintam and Vinay Kumar V</i>
TT1: Power Converter		Venue: LH1, LHC-C (Session Chair: Jaison Mathew, GCE)
Date & Time 20-12-2024, 09:00 - 10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	808	A Compact Low Cost and High-Efficiency Switched-Capacitor Multilevel Boost Type Inverter Topology; <i>Ahmed Awadelseed, Arkadiusz Lewicki, Atif Iqbal, and Mohammad Zaid</i>
09:15-09:30	954	MPC Based Phase Angle Adjustment for Optimal Power Transfer in Neutral Point Clamped Dual Active Bridge Converter; <i>Somnath Meikap, Ram Gopal, Chandan Kumar, and Jose Rodriguez</i>
09:30-09:45	922	A Non-isolated High Step-up DC-DC Converter based on Modified Quadratic Boost and Cuk Converter; <i>Sunil Mandal, Prajof P, and Mohammadreza Adib</i>
09:45-10:00	736	Experimental analysis of Quasi Z Source Resonant Converter at Fixed Frequency Phase Shift Modulation; <i>Santoshkumar M. Mahadev Hunachal, Arunkumar G, Srikanth Pulipaka, and Sudarshan B S</i>
10:00-10:15	653	Improved Boost Type-ANPC 5L Inverter Topology; <i>Jagabar S Sathik, Arpan Hota, Vigna K Ramachandaramurth, A Dual Output High-gain Flyback Converter for DC Microgrid Application;</i> <i>Ananya Pritilagna Biswal, Krishna Roy, and Arnab Ghosh</i>
10:15-10:30	414	
TT2: Power Devices, Passive Components, EMI/EMC and Packaging		Venue: LH2, LHC-C (Session Chair: Kaushik Basu, IISc)
Date & Time 20-12-2024, 09:00 - 10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	818	Effect of parasitic inductance on switching transition for Four-Quadrant Switches in Current Source Inverter; <i>Ashish Kumar, and Apurv Kumar Yadav</i>
09:15-09:30	895	Quality Factor Optimization of Single-Layer Air Core Toroidal Inductors; <i>Ayush Dixit, Pranjal Sachan, Sreyam Sinha, and Sumit Pramanick</i>
09:30-09:45	899	Optimizing DC-Link Capacitor Size in Ten-Switch Neutral Point Clamped Converter; <i>Narendrababu A, and Pradyumn Chaturvedi</i>
09:45-10:00	900	An Improved Approach for Design of Inductors with Air Gaps; <i>Geethika Kilari, Sai Vinay Kishore Nannapaneni, and Seshadri Sravan Kumar Vanjari</i>
10:00-10:15	909	A Four Switch SiC Solid State Relay with Inrush Current Protection for High Voltage and High Power Converters; <i>Prateek Singh, Deeksha Bhule, and Sudharshan Karthik</i>
10:15-10:30	927	Design and Development of 10kA 1kV Synchronized Thyristor based Static Switch for Evaluation of Breaking Performance of Low Voltage Circuit Breakers; <i>Nunnagoppula Maheswara Rao</i>
TT3: Electrical Machines and Industrial Drives		Venue: LH3, LHC-C (Session Chair: Phaneendra Babu, Hyderabad)
Date & Time 20-12-2024, 09:00 - 10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	377	Speed Sensorless Power Hardware In the Loop Emulation of PMDC Machine with Fuzzy Based Observer; <i>Dr. Arun Rahul S, and Harikrishnan S</i>
09:15-09:30	388	Complex Vector Disturbance Observer for Syn-RL Motor with Speed Estimation; <i>Saurabh Mishra, and Bhim Singh</i>
09:30-09:45	392	A Variable Duty Cycle Based Method for High Resistance Connection Fault Detection in BLDC Motor Drives; <i>Annima Gupta</i>

09:45-10:00	403	A Novel Design of Switched Reluctance Machine using the Rotor of Synchronous Reluctance Machine; <i>Angshudeep Majumdar</i>
10:00-10:15	405	Investigations on Rotary Transformer Configurations for Brushless Operation of Electrically-Excited Synchronous Machines; <i>Mitul A Wankhede, Shovan Dey, Annoy Kumar Das, and Baylon G. Fernandes</i>
10:15-10:30	438	Experimental Studies on Speed-Dependent Vibrations of a 30,000 rpm Switched Reluctance Machine; <i>Shreyas Srivatsa, Syed Shahjahan Ahmad, Samrat Das, Sakshi Narchail, Pramod Kumar, and Gopalaratnam Narayanan</i>

TT3: Electrical Machines and Industrial Drives **Venue: LH4, LHC-C (Session Chair: Dr. Senthil, NIT Trichy)**

Date & Time 20-12-2024, 09:00 - 10:30

Time Slot	Paper ID	Paper Details
09:00-09:15	746	Agricultural Photovoltaic Water Pumping System Performance During Partial Shading Condition; <i>Kalpna Beura, and Omar Al Zaabi</i>
09:15-09:30	853	Minimum Pulse Width adjustment in duties of SVPWM Technique for Synchronous Motor Drives using a 3 Level NPC inverter; <i>Saurabh Kumar, S. P. Das, and Piyush Kant</i>
09:30-09:45	760	Saliency Enhancement Design of PMSynRM through Kriging Surrogate Modeling Optimization; <i>Naga Sampath</i>
09:45-10:00	787	Investigation of Inclined Coil Configurations for 3-Phase Dual Rotor Single Stator Winding; <i>Vaibhav Bhardwaj, Durgesh Kumar Banchhor, Amit Kumar Jain, Ankit Dalal, and Dattatraya Shelke</i>
10:00-10:15	788	Impacts of Earth Fault on Neighboring AC Motor Drives in Isolated Neutral (IT) Grid Systems; <i>Seshadri Gopalan, and Dinesh Kumar</i>
10:15-10:30	820	Effect of Input Voltage Unbalanced Harmonics on DC bus Capacitors of Adjustable Speed Drives; <i>Seshadri Gopalan, and Dinesh Kumar</i>

TT4: Transportation **Venue: LH5, LHC-C (Session Chair: Dr Suwendu Samanta, IIT Kanpur)**

Date & Time 20-12-2024, 09:00 - 10:30

Time Slot	Paper ID	Paper Details
09:00-09:15	939	Effect of Rotor Core Shapings and Ribs on the Performance of Reduced Rare Earth Interior Permanent Magnet Synchronous Machines; <i>Abhishek Shukla, and Saptarshi Basak</i>
09:15-09:30	584	Hexverter Based Medium Voltage Fast-Charger with Medium Frequency Isolation; <i>Rydham Agarwal, and Tanmoy</i>
09:30-09:45	594	Effect of Harmonics due to Grid Integration of Electric Vehicles: Case Study and Analysis; <i>Rajeshwari M, and Tulika Bhattacharjee</i>
09:45-10:00	882	Reconfigurable Battery with Multiple Input Bidirectional DC-DC Converter for Electric Vehicle; <i>Saket Kumar, Lalit Kumar Sahu, and Dr. R N Patel</i>
10:00-10:15	628	A Voltage-based Charge Balancing Algorithm to Mitigate the Charge Recovery Effect of Li-ion Batteries; <i>Ramesh Parnapalli, Jyotirmaya Sahoo, Amit Patra, and Deba Prasad Kastha</i>
10:15-10:30	654	Loss Comparison of GaN, SiC, and IGBT based inverters for Low Voltage High Current Two-Wheeler EV Applications; <i>Siddhartha Suyal, Shambhunath Dutta, and Apurv Kumar Yadav</i>

TT6: Renewable Energy Systems and Energy Storage **Venue: LH6, LHC-C (Session Chair: Kundan Kumar, NIT Manipur)**

Date & Time 20-12-2024, 09:00 - 10:30

Time Slot	Paper ID	Paper Details
09:00-09:15	327	Mitigation of Circulating Currents in Parallel-Connected Solar PV Inverters: Real-Time Implementation and Analys; <i>Lekshmi KR, ATHIRA B P, Anoop P, Jinuraj KG, and Aby Joseph</i>
09:15-09:30	352	Implementation of Microgrid System and its Operation Under Line to Ground fault Condition in Grid Voltage; <i>Shoubhik Mukherjee, Rupesh Wandhare, Deepak Gehlot, A.S Krishnapriya, and S ESWARA RAO</i>
09:30-09:45	365	Power Control Technique of a Multiport Converter for Low Voltage Standalone Solar PV Applications; <i>Monishankar Ghosh, and Jose Thankachan</i>
09:45-10:00	387	Linear Phase-locked Loop based Hybrid Grid Synchronization for Grid-Forming Inverters; <i>Dev Srikrishna Alla Animesh K Sahoo, Sandeep Negi, and Chandrasekaran S</i>
10:00-10:15	390	Digital Evaluation of Li-ion cells: Impact of concentration based diffusivity on P2D models; <i>Saksham Mantani, Jose Mathew, Diyo Jose, and Sudesh Sudesh (MBRDI)</i>
10:15-10:30	391	PV System Dynamic Performance Maximisation using a Novel Drift-Free MPPT Method; <i>Srinivasarao Kavuru Pradyumna Kumar Behera, Monalisa Pattnaik, Pravat Ray, and Prof. Anura Wijayapala</i>

TT6: Renewable Energy Systems and Energy Storage **Venue: LH7, LHC-C (Session Chair: Vinod Khadkikar, UAE)**

Date & Time 20-12-2024, 09:00 - 10:30

Time Slot	Paper ID	Paper Details
09:00-09:15	744	Modular Hybrid Series-Parallel DC-DC Converter for HVDC to MVDC applications; <i>Chandan Kumar, Prakash Tandi, Lalit Kumar, Mukul Mohan Yadav, Aayush Kumar Singh, and Siba Kumar Patro</i>
09:15-09:30	406	A Single-Stage Grid-Following PV Inverter Featuring a Current Management System to Handle MPPT and LVRT with Fewer Sensors; <i>Ajay Kumar Jena, Durga Nair S, and Dr. Arun Rahul S</i>
09:30-09:45	407	Maximum Power Estimation of a Partially Shaded PV String Using a Novel Elliptical Foci Based Technique; <i>Durgesh Chandra Nautiyal, Shivam Tripathi, and Himanshu Sahu</i>
09:45-10:00	435	Advanced Sample-Based ANN MPPT for TCT Solar Panels in Partial Shading Environments; <i>Gaurav Kumar and Suresh Mikkili</i>
10:00-10:15	470	Design and Development of Dual-Input Single-Output High-Gain DC-DC Converter for Renewable Energy Application; <i>Kumaravel S and Ranjesh Kumar</i>
10:15-10:30	475	Development of Non-Isolated Bidirectional Quadratic DC-DC Converter with Reduced Switch Current Stress; <i>Kumaravel S, Anjana M P, Jins Biju, Avanthika Muraleedharan, Aleena Shaju, and Fathima Habeeb</i>

TT7: Smart Grids & Power Quality **Venue: LH8, LHC-C (Session Chair: Sanjiy Debbarma, NIT Meghalaya)**

Date & Time 20-12-2024, 09:00 - 10:30

Time Slot	Paper ID	Paper Details
09:00-09:15	500	Dual Virtual Inertia Control of Interlinking Converter in Hybrid Microgrid; <i>Shwetank Agrawal, Barjeev Tyagi, Vishal Kumar, and Pawan Sharma</i>
09:15-09:30	189	Improved ANPC Three-Level Inverter with Voltage Boosting Ability; <i>Jagabar S Sathik, Vigna K Ramchandramurthy, Dhananjaya M, Mamdough L. Alghaythi, and Meshari Alshammari and Saad Mekhilef</i>
09:30-09:45	512	Flexibility Trading from P2P Networks to Improve the Grid Frequency Response in the Presence of RTEM and MARL-Based AGC Systems <i>Liza Debbarma, Sanjoy Debbarma, and Piyush Pratap Singh</i>
09:45-10:00	924	Commutation Torque Ripple Reduction in Open-end winding BLDC Motor Drives; <i>Rajeevan PP and Harikrishna U</i>
10:00-10:15	541	Performance Study of a Three-phase SEIG Feeding Single-phase Non-linear Loads; <i>Samrat Chakraborty and Rajen Pudur</i>
10:15-10:30	792	Grid Disturbance and Internal Voltage Source Saturation Impact on Power-Angle Curves of GFM; <i>Divyanshu Bansal, Aravind G, Atmanandmaya Atmanandmaya, and L. Umanand</i>

TT1: Power Converter		Venue: CR1, LHC-C (Session Chair: Dr. Subrata Banerjee NIT Durgapur)
Date & Time 20-12-2024, 03:30 - 05:30		
Time Slot	Paper ID	Paper Details
15:30-15:45	427	Multi-arm MMC Analysis for Resolving Power Mismatch Issues <i>Sualiha Bazaz, Krishna Raj R and Anandarup Das</i>
15:45-16:00	662	Battery-Powered Current Regulated Automotive LED Driver; <i>Madhuri Bavupally</i>
16:00-16:15	588	High Performance SRM Drive for Household Appliances; <i>Vipin Kumar singh, Jitendra Gupta and Bhim Singh</i>
16:15-16:30	975	Design of an Active PFC Flyback Converter for Auxiliary Power Supply in Power Electronic Converter; <i>Julakanti Satheesh Reddy, Arun Karuppaswamy</i>
16:30-16:45	357	Model Predictive Control of 3-Level T-Type Converter for Grid-Tie Application; <i>Shivani Soni and Sreenivasarao D</i>
16:45-17:00	338	Asymmetrical Low Switch Count 15-Level Multilevel Inverter with Multi-Carrier PWM Control; <i>Swapan Kumar Baksi, Dr.Ranjan Kumar Behera, and Utkal Ranjan Muduli</i>
17:00-17:15	907	Phase-Shift Control Analysis of a 25 kV DC Supply Utilizing Voltage Multiplier; <i>Aashish Ranjan, Brijendra Verma, Niraj Kumar, Dhiraj Sangwan, Anil Kumar Saini, and Anand Abhishek</i>
17:15-17:30	734	Grid Forming Control of PHC Based STATCOM; <i>Anil Kumar Tiwari, IghanChand Rath, and Siba Kumar Patro</i>
TT1: Power Converter		Venue: LH1, LHC-C (Session Chair: Dr. P. Prajof, NITK)
Date & Time 20-12-2024, 03:30 - 05:30		
Time Slot	Paper ID	Paper Details
15:30-15:45	715	Master-Slave Control Design on High Powered Interleaved Boost Converter; <i>Sudarshan Singh, Dalija Rath and Susovan Samanta</i>
15:45-16:00	353	Determining Power Loss of Motor Controller at Different Torque and Speed for Electric 2-Wheeler Application; <i>Prathamesh Deshpande, Meera Murali, Kapil Kalantri, and Rohan Deshpande</i>
16:00-16:15	293	Control and Implementation Aspects of Totem-Pole Power Factor Correction Circuit in Digital Domain; <i>Cilaveni Satish Chandra, Vaishnavignesh G Iyer, Pramit Nandi, Ravindranath Adda, and Sreenath J G</i>
16:15-16:30	277	Dual Switch Switched Inductor-Capacitor Network-based High Gain DC-DC Converter with Reduced Switch Current Stress and Continuous Input Current; <i>Kumaravel S and Vinu Varshath S</i>
16:30-16:45	926	Study and Performance Evaluation of Design and Control Methods for CC/CV based EV Charging in WPT Topologies; <i>Jalaj Kumar, Ritesh Gupta, Avaniish Pandey, Suvendu Samanta, and Akshay Kumar Rathore</i>
16:45-17:00	842	Optimized Switched Inductor-Capacitor Architecture for High Voltage DC-DC Conversion; <i>Seshagiri Rao Vemparala, Sagar B Mahajan, Mahmoud F. Elmorshedy, Dhafar Almakhlles, and Kumaravel S</i>
17:00-17:15	711	Switched Capacitor-based Buck/Boost DC-DC Converter For Low Power Applications; <i>Kundala Sai Varun, Mattaparthi Pradeepthi Neha, Jakkana Sai Dev Lohith, Sachin Singh, Avula Muneeswari, Maddu Esther Pravallika,</i>
17:15-17:30	633	Use of Artificial Neural Network to Predict Duty Ratio in Two Sub-modes of CI-SIDO Boost Converter; <i>Vigneshwaran R, Angan Sarkar, and Shabari Nath</i>
TT1: Power Converter		Venue: LH2, LHC-C (Session Chair: Dr. B. Dastagiri Reddy NITK)
Date & Time 20-12-2024, 03:30 - 05:30		
Time Slot	Paper ID	Paper Details
15:30-15:45	548	Analysis and Design of a Non-Isolated Bidirectional DC-DC Converter with High Voltage Ratio for Battery Storage System; <i>Dharavath Anusha and Srinivasan Pradabane</i>
15:45-16:00	506	A Transformerless Quadratic DC-DC Boost Converter Based on Switched-Capacitor Structure with Reduced Switch Voltage Stress; <i>Soham Chakraborty and Prasun Mishra</i>
16:00-16:15	382	Low-Frequency Common Mode Voltage Mitigation in Si/SiC Based Ten-Switch Neutral-Point Clamped Converter; <i>Narendrababu A, Naveen Yalla and Kishore Hirekar</i>
16:15-16:30	315	A Generalized Multilevel Converter System and its State Observation; <i>Jagannath Samantaray and Sohom Chakraborty</i>
16:30-16:45	215	Diode Assisted High Gain DC-DC Converter Abstract; <i>Shri Prakash Sonkar</i>
16:45-17:00	65	A novel six-switch two-output port isolated DC-DC converter acting as a DC Transformer for battery voltage step-up and battery-to-PV changeover applications; <i>Arkabrata Dattaroy and Avik Bhattacharya</i>
17:00-17:15	850	Design of Compact Si-IGBT Module Based Power Converter fed Vector Controlled IM Drives For EV Application; <i>Nilesh Pandey, Vaishnav K S and Piyush Kant</i>
17:15-17:30	833	Disturbance model for the integrated PSFB and inverter system in grid-tied PV applications; <i>Sri Chaitanya and Krishna Vasudevan</i>
TT3: Electrical Machines and Industrial Drives		Venue: LH3, LHC-C (Session Chair: Dr. Manjunath Sharma K, NITK)
Date & Time 20-12-2024, 03:30 - 05:30		
Time Slot	Paper ID	Paper Details
15:30-15:45	487	Novel Line-Start Rib-less PM-assisted Synchronous Reluctance Motor for Submersible Bore-well Pump; <i>Vishal M J, Harikrishnan S, and Baylon G. Fernandes</i>
15:45-16:00	494	A Transistorized DC Commutatorless Series Motor Drive with Reduced Torque Ripple for Electrified Vehicle Applications; <i>Moyukh Mandal and Kaushik Mukherjee</i>

16:00-16:15	508	Pole Number Optimization and Closed Loop Control of an Outer Rotor BLDC Motor for UAV Application; <i>Surajit Saha, Cheshita Jain, and Amit Kumar Jain</i>
16:15-16:30	518	Chaotic Behavior Assessment of Switched Reluctance Motor in Dynamic Conditions; <i>Yaheya Al Aman and N C Sahoo</i>
16:30-16:45	524	A Simple and Accurate Analytical Approach for Calculation of Air-gap Flux Density in PMSM; <i>Sagar Gupta, Vaibhav</i>
16:45-17:00	526	Torque Enhancement of BLDC Motor Considering Iron Loss: Modeling and Compensation Approach; <i>Amitesh Prakash, Alok Ranjan, Dr. Vijaya Bhaskar Devara, and Utkal Ranjan Muduli</i>
17:00-17:15	530	A Comprehensive Approach with Optimizing Current Harmonic Regulation in IPMSM Drive; <i>Alok Ranjan and Vijaya Bhaskar Devara</i>
17:15-17:30	535	Performance Evaluation of Brushless PM Motor with Less-Rare-Earth Mixed Grade Segmented Poles for UAV Applications; <i>Vaibhav Bhardwaj and Amit Kumar Jain</i>

TT4: Transportation **Venue: LH4, LHC-C (Session Chair: Dr. Dharavath Kishan NITK)**

Date & Time 20-12-2024, 03:30 - 05:30

Time Slot	Paper ID	Paper Details
15:30-15:45	657	A Modified T-type Based Single-Stage 3-Level Isolated Bidirectional Off-Board Charger For Electric Vehicles; <i>Nilesh Pandey, Piyush Kant, and Sunil Kumar Dube</i>
15:45-16:00	709	Compensation Tuning for Efficiency Maximization in LCC/LCC Compensated Inductive Power Transfer based Charging Systems; <i>Kukkala Satya Prakash and Chandrasekhar Perumalla</i>
16:00-16:15	713	Reconfigurable Wide Voltage Range Battery Charger for Electric Transportation Applications; <i>Anguru Deepak Datta, Jammy Ramesh Rahul, and Chandrika Vadrevu</i>
16:15-16:30	714	LCL Compensated Series Transmitter Array Based Inductive Wireless Charger for Multiple EV Charging Application; <i>Abhishek Singhal, Venkata Ratnam Vakacharla, and Narasareddy</i>
16:30-16:45	728	An Analytical Approach of Higher Order Electric Vehicle System Reduction Using Truncation Based Approximation; <i>Sameer Singh, Vinay Pratap Singh, Umesh Kumar Yadav, Akhilesh Mathur, Suryansh Kumar Pandey, Shailendra Kumar, and Krishna Murari</i>
16:45-17:00	958	Model Predictive Control of Solar PV and Battery Converters using Droop Control; <i>Devendra Kumar, Somnath Meikap, Chandan Kumar, Fernanda Carnielutti, and Jose Rodriguez</i>
17:00-17:15	814	Vehicle-to-Grid (V2G) Technology: Global Scenario, Future Scope, Challenges, and Implementation; <i>Akshay Kumar Rathore, Bala Krishnan B Sivaneasan, Dhivya Sampath Kumar, Anurag Sharma, and Kuan Tak Tan</i>
17:15-17:30	932	Modular Three-Phase Matrix-Based Single-Stage High-Frequency Link Bidirectional PFC Converter for EV Charging; <i>Akshay Kumar Rathore, Nil Patel, Luiz Lopes, Jose Rodriguez, and Arun Kumar Verma</i>

TT6: Renewable Energy Systems and Energy Storage **Venue: LH5, LHC-C (Session Chair: Dr. Chandan Kumar, IITG)**

Date & Time 20-12-2024, 03:30 - 05:30

Time Slot	Paper ID	Paper Details
15:30-15:45	477	Self-Sustaining Photovoltaic Power System with High-Gain Boost Converter for DC Nanogrid Equipped with Hybrid Storage Unit; <i>Pradyumna Kumar Behera, Manishankar Verma, and Monalisa Pattnaik</i>
15:45-16:00	489	Restoration and Grid Integration of Unbalanced and Distorted Distribution System using Inverter based Renewable Energy Systems; <i>Diptiman Dey and Suryanarayana Doolla</i>
16:00-16:15	492	Comparative Study of Single-Phase Five-Level Transformerless Solar PV Grid-Connected Inverters; <i>Sanket Subhash Tambe and Anubrata Dey</i>
16:15-16:30	509	Reliability Analysis of SEIG-ELC System using Markov Modelling; <i>Shalini Sinha and Rajen Pudur</i>
16:30-16:45	514	Bi-Level Optimization Framework for Energy Management in Networked Microgrids; <i>Vikas Ranveer Singh Mahala, Anshul Kumar Yadav, D. Saxena, and Rajesh Kumar</i>
16:45-17:00	533	Dual Configured SEIG-Based WES Using Modified SVM Technique for Three Level Back to Back Converter; <i>Navin Kumar and Giribabu Dyanamina</i>
17:00-17:15	549	Approximation of Higher Order Fuel Cell System Employing Error Minimization; <i>Rahila Parveen, P.D. Dewangan, S.L. Sinha, and Vinay Pratap Singh</i>
17:15-17:30	559	Design and experimental investigation of Battery Management System; <i>Abitha A, Swetha, Ramesh P, Aby Joseph, and Sreeranjini S V</i>

TT6: Renewable Energy Systems and Energy Storage **Venue: LH6, LHC-C (Session Chair: Sunanda, MNIT Jaipur)**

Date & Time 20-12-2024, 03:30 - 05:30

Time Slot	Paper ID	Paper Details
15:30-15:45	567	Smart Utility Interface for Solar PV Fed Vector Controlled Induction Motor Drive For Water Pump Applications; <i>Vishal Tyagi, Taniya Goyal, and Sumit GhatakChoudhuri</i>
15:45-16:00	631	Enhanced VSG-Based Control for Parallel Grid-Forming Converters in an Autonomous Microgrid; <i>Uzair Malik,</i>
16:00-16:15	635	Shading; <i>Sadhana Anantha, Vinay Kumar Kolakaluri, and Vaskar Sarkar</i>
16:15-16:30	639	Particle Swarm Optimization-based Sensorless Active Power Decoupling for Active-Front-End Impedance-Source Inverters; <i>Pramit Nandi, Ravindranath Adda, Cilaveni Satish Chandra, and Vaishnavvignesh G Iyer</i>
16:30-16:45	651	Supercapacitor Voltage Prediction using a Dynamic Fractional Order Parameter Optimization; <i>Shifa H Rahman, Jagadanand G, and Shreelakshmi MP</i>
16:45-17:00	668	Investigating Temperature Variations in AC Impedance with an Indigenously Developed EIS Test-Bed; <i>Sarban Mandal, Shaurya Pandey, Bikash Sah, Sai Krishna Mulpuri, and Praveen Kumar</i>
17:00-17:15	681	A VUF Constrained Neutral Current Reduction Strategy for 4-Leg Grid Forming Inverter; <i>Vedant Chandak, Imran Khan, and Suryanarayana Doolla</i>

17:15-17:30	684	A Two-stage PV-Battery Grid Forming Control With Current Limitations on Both AC and DC Side; <i>Kanishka Ravi Madishetty, Imran Khan, and Suryanarayana Doolla</i>
TT6: Renewable Energy Systems and Energy Storage		Venue: LH7, LHC-C (Session Chair: Yashwant Kashyap, NITK)
Date & Time 20-12-2024, 03:30 - 05:30		
Time Slot	Paper ID	Paper Details
15:30-15:46	685	On the Development of a FCS-MPC based Power Amplifier for Power-Hardware-in-the-Loop Tests; <i>Vineeth K P, Imran Khan, and Suryanarayana Doolla</i>
15:45-16:01	697	Hybrid Model-based and Heuristic Optimal Parameter Estimation for a PV-fed DC-DC Converter with Maximum Power Extraction; <i>Akshay Chabukswar, Praveen Vankadari, Akurathi Sai Sarath Chandra, Avinash Naramu, Rahul Raj Kar, and Rupesh Wandhare</i>
16:00-16:16	701	Active Balancing of LiFePO4 Battery Modules using Phase-Shift type DC-DC Converter for High Voltage Applications; <i>Akurathi Sai Sarath Chandra, Avinash Naramu, Akshay Chabukswar, Praveen Vankadari, and Rupesh Wandhare</i>
16:15-16:31	717	Fault Signal Formulation For Fault Analysis In DC Microgrid; <i>Aditi Sharma, Venkata Ratnam Vakacharla, and Tummuru Narsa Reddy</i>
16:30-16:46	735	Grid Forming Control of Star Connected Cascaded H-Bridge STATCOM; <i>Anil Kumar Tiwari, Ibhanchand Rath, and Siba Kumar Patro</i>
16:45-17:01	737	Dynamic Droop Control for Optimal Power Sharing in Renewable Rich Hybrid Islanded Microgrids; <i>Amit Gupta and Chandrasekhar Perumalla</i>
17:00-17:16	875	Solar Microinverter with ESS for Rural Households; <i>Ajay Kumar Sahu, Dr. R N Patel, and Dr. Lalit Kumar Sahu</i>
17:15-17:31	750	DC-AC Conversion In PV Based Series Modular Converter; <i>Shourya Sharma, Allamsetti Jahnavi, Komarapu Hanisha, Nallepalli Parthasarathi Vaishnavi, Siripangi Sai Teja, Tarunveer Tarunveer, and Siba Kumar Patro</i>
TT7: Smart Grids & Power Quality		Venue: LH8, LHC-C (Session Chair: Anand Sathyan, USA)
Date & Time 20-12-2024, 03:30 - 05:30		
Time Slot	Paper ID	Paper Details
15:30-15:45	969	Design and Analysis of IPMSM with Modular Stator Structure for Electric Vehicular Applications; <i>Gowtham Vegireddy, Deepak Ronanki, and Apparao Dekka</i>
15:45-16:00	703	Fault Detection in Autonomous Microgrid with Distributed Secondary Controlled DGs; <i>Praveen P, and Vishal Kumar</i>
16:00-16:15	707	Adaptive Harmonic Compensation Strategy based Frequency Lock Loop for Grid Connected PV System Under Abnormal Grid Voltages; <i>Manash Kumar Mishra, Prakash Ji Barnawal, Vivek Nandan Lal, and Rajeev Kumar Singh</i>
16:15-16:30	874	Integral Dual Fractional Derivative Frequency Controller for Thermal Power Plant with Delay; <i>Deepak Kumar, G. Lloyds Raja, Mohamed Alkhatib, Omar Al Zaabi, Khalifa Hassan Al Hosani, and Utkal Ranjan Muduli</i>
16:30-16:45	781	Design and Control of Three Phase Active Front End Converter fed Isolated Voltage Balancer for Bipolar DC Microgrid; <i>Praveen Vankadari and Rupesh Wandhare</i>
16:45-17:00	784	Utilization of Master and Smart Meter Readings for Pin Pointing Electricity Theft using Correlation Analysis; <i>Janani T and Suman Murugesan</i>
17:00-17:15	811	Sinusoidal Amplitude Integrator-based Harmonic Extraction for Active Harmonic Filter; <i>Praveen Vankadari, Vavilala Mohana Venkata Naga Sai Kishore, Rahul Raj Kar, and Rupesh Wandhare</i>
17:15-17:30	836	Current Vector Oriented Control Scheme for Power Sharing in Open-end Winding Transformer Based Microgrids; <i>Rajeevan PP, NAUFAL N, and Rajesh J Abraham</i>

TT1: Power Converter		Venue: CR1, LHC-C (Session Chair: Dr. Md Waseem Ahmad NITK)
Date & Time 21-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	513	Performance Optimization in Phase Shifted Full Bridge Converter using Parallel Loop Shaping Technique <i>Healsa Henry</i>
09:15-09:30	420	Transition and Fault-tolerant Scheme for Single-phase Inverter <i>Priya Singh Bhakar, Naga Brahmendra, Yadav Gorla and Kalaiselvi J</i>
09:30-09:45	366	Power Quality Enhancement of Five-level Converter Using Floating H-bridges of Voltage Ratio 4:1/2:1/4 <i>Shashank Dabral and Satyabrata Sahoo</i>
09:45-10:00	269	Control Strategies for 3L-T-type Inverter in Islanded and Grid-Tied Modes Using Controller-Hardware in the Loop <i>Dhiraj Kumar, Yojan Sharma, Aakash Singh and Suvendu Samanta</i>
10:00-10:15	259	Estimation of Parasitic Inductances of a Two-Phase Interleaved Buck Converter with Coupled Inductors Through Detailed Experiments <i>Sayantan Chanda, Gourab Banerjee, Dona Chakraborty and Mainak Sengupta</i>
10:15-10:30	630	A Common Grounded ASISC DC-DC Converter without Oscillation across Switches; <i>Avneet Kumar, Sahendara Kumar and Raghuram M</i>
TT1: Power Converter		Venue: LH1, LHC-C (Session Chair: Dr. Ravi Raushan, NITK)
Date & Time 21-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	864	Seamless Dispatchable Grid Integration of an FPPT-Controlled PV System with Limited Local Energy Storage <i>Sadhana Anantha; Vinay Kumar Kolakaluri; Sura Chanukya and Vaskar Sarkar</i>
09:15-09:30	883	Design of Solar Photovoltaic System for Off-Grid Domestic Applications, <i>Mohamamd Junaid and Bhim Singh</i>
09:30-09:45	901	Control of a Two-Stage High-Frequency Isolated PV-Grid Integrated System with Improved Power Quality, <i>Sruthi M; Jeevanand P; Sooraj Suresh Kumar; Jayaprakash P. and Akhil Chacko</i>
09:45-10:00	925	Enhancing System Performance with Wind Farm Using Fuzzy Logic Coordination Between AVR and PSS Controllers, <i>Jawaharlal Bhukya; K. Surender and Chandrakant Rathore</i>
10:00-10:15	935	Identification of Li-ion Battery Parameters Using Neural Networks, <i>Chandrasekhar azad Narlapati; Jeyasenthil Ramamurthy; Tarakanath Kobaku; Vivek Agarwal; Pratik Kumar Singh and Venkata Ramana Kasi</i>
10:15-10:30	949	Enhancing Voltage Stability in Bipolar Microgrids, <i>Vinod S Patil</i>
TT1: Power Converter		Venue: LH2, LHC-C (Session Chair: A Karthikeyan, NITK)
Date & Time 21-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	507	Intelligent Inductor Characterization for Power Converters; <i>Mohammed Ali Khan; Ramkrishan Maheshwari; Kasper Mayntz Paasch and Thomas Ebel</i>
09:15-09:30	977	Three-Phase Decomposition-based PWM for CMV Elimination in Dual Inverter-fed Six-Phase Motor Drive Fed From A Single DC source; <i>Prasoon Chandran Mavila; Sobhan Mohamadian; Rajeevan PP; Concettina Buccella and Carlo Cecati</i>
09:30-09:45	505	Deadbeat Controller for Current Injection Circuit-based Front-End Converter, <i>Ramkrishan Maheshwari; Kasper Mayntz Paasch and Thomas Ebel</i>
09:45-10:00	590	Influence of Insulation Requirement on PMSM Design and Performance Driven by a Multi-Level Inverter, <i>N. Rezwana S Popsi; Himavarsha Dhulipati; K. Lakshmi Varaha Iyer; Narayan Kar</i>
10:00-10:15	767	Advanced Discrete-Time Modeling and State Feedback Control of an Interleaved Buck Converter, <i>Galina Mirzaeva, Yunxun Mo and Eduardo Espinosa</i>
10:15-10:30	766	The Use of Power Factor Optimisation to Improve Harmonic Performance of Matrix Converters, <i>Galina Mirzaeva, Yuan Liu and Eduardo Espinosa</i>
TT1: Power Converter (ONLINE)		Venue: LH3, LHC-C (Session Chair: Dattatraya Narayan Gaonkar)
Date & Time 21-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	345	Enhanced Control Structure for Servo Drives with Adaptive PWM, <i>Manuel Weiss; Florian Frick; Armin Lechler and Alexander Verl</i>
09:15-09:30	638	Detection of Wind Turbine Induced Forced Oscillations using Periodogram and DEF Techniques, <i>Piyush Rai, Kumar Abhinav, Priyesh Saini, Abhineet Prakash, and Sanjoy Kumar Parida</i>
09:30-09:45	184	Control of Single Phase Full Bridge VSI Using Modified Peak and Valley Current Control With Optical Isolation, <i>Betsy Baby and Mathew K.</i>
09:45-10:00	341	AI Reduced Order Model of Induction Machine; <i>Farid Zidat; Spyridon Foivos Mallios; Lavanya Vadomodala; Karun Teja Avula and Philippe Wendling</i>
10:00-10:15	424	Interleaved Sigma-Delta Current Sense for Improved Direct Torque Control of PMSM, <i>Vaidehi Anil Deoskar; Nima Tashakor; Stefan Goetz and Thomas Leyrer</i>
10:15-10:30	320	Mitigating SSR in DFIG-Based Wind Farms using a Robust Terminal Sliding Mode Controller <i>Tushar Kanti Roy, Md Apel Mahmud and Amanullah Maung Than Oo</i>

TT6: Renewable Energy Systems and Energy Storage (ONLINE) Venue: LH4, LHC-C (Session Chair: Anurag Sharma, Newcastle Uni, UK)

Date & Time 21-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	858	A Fault-Tolerant Multilevel Inverter Topology Configured with Three Sources with Improved Performance in Post-Fault Conditions Marif Daula Siddique, Mehdi Seyedmahmousian, Saad Mekhilef and Alex Stojcevski
09:15-09:30	971	Reduced-sensor-based OSS-MPCC for Grid-tied Inverter with LCL filter Mohammad Anas Anees, Mostefa Kermadi, Saad Mekhilef, Marizan Mubin, and Marif Daula Siddique
09:30-09:45	860	Power Quality Comparison of Even and Odd Number of Levels with Active Neutral Point Clamped Configured Topologies, Marif Daula Siddique; Mehdi Seyedmahmousian; Saad Mekhilef and Alex Stojcevski
09:45-10:00	121	High-Power Three-Port Converter for Efficient EV Fast Charging Using Partial Power Processing; Zarren Firdous (Universiti Malaya)*; Saad Mekhilef; Marizan Mubin; Ahmed Elsanabary; Marif Daula Siddique and Obid AL Shammari Hail
10:00-10:15	305	A High-Gain Non-Isolated Boost-SEPIC DC-DC Converter, Victoria T Alencar and Romero Andersen
10:15-10:30	596	Traction to Auxiliary Power Transfer in Modular EV Drivetrain; Harminderjit Singh Toor; Virraaj Lulla; Lakshmi Varaha Iyer; Narayan Kar and Caniggia Viana

TT6: Renewable Energy Systems and Energy Storage (ONLINE) Venue: LH5, LHC-C (Session Chair: Panduranga Vittal K)

Date & Time 21-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	266	A Cloud-Based Solution for Remote Access to a Microgrid Experimental Platform, Varun Balan (University of Wisconsin-Madison); Maitreyee Marathe (University of Wisconsin-Madison)*; Giri Venkataramanan (University of Wisconsin-Madison)
09:15-09:30	412	Evaluation of Thermal Performance of Oil-immersed Power Electronics Giri Venkataramanan; Ratnesh Singh and Dan Ludois
09:30-09:45	27	Minimum Switch Double Boost Switched Capacitor Inverter with Phase Disposition PWM Control; Geno Peter, Albert Alexander S, Vijayakumar Arun and Samat Iderus
09:45-10:00	28	Double Boost Switched Capacitor Multi-Level Inverter with Modified PWM Control; Geno Peter; Albert Alexander; Vijayakumar Arun and Samat Iderus
10:00-10:15	649	Comprehensive drive-cycle-based analysis of hairpin vs stranded windings for EV; Mohamed Abdulsamad; Himavarsha Dhulipati and Hicham Chaoui
10:15-10:30	580	Design and Analysis of RLS-Based Torque Estimation for Control of EV Traction PMSMs, Shashwat Shukla; Gourab Ghosh and Anchal Saxena

TT6: Renewable Energy Systems and Energy Storage (ONLINE) Venue: LH6, LHC-C (Session Chair:Manjunatha Sharma K)

Date & Time 21-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	170	Integrating Data Intrusion Defense Strategy in PV Power Forecasting Framework, Vikash Kumar Saini; Ameena Saad Al-Sumaiti and Rajesh Kumar
09:15-09:30	227	Sustainable Microgrids: TLBO-Driven Multi-Objective Optimization Modeling for Cost-Effective Emission-Embedded Solution, Manisha; Vikash Kumar Saini; Meena Kumar; Rajesh Kumar and Ameena Saad Al-Sumaiti
09:30-09:45	515	Truncation Based Reduction of Interconnected Hybrid Power System V. P. Sharma, Akhilesh Mathur, V. P. Singh, Krishna Murari, Mrityunjay Kumar Mishra, and Ameena Saad Al-Sumaiti
09:45-10:00	754	Efficient Load Frequency Regulation of Islanded Microgrids with Fractional-Order PI Controller; Tarun kumar Bashishtha, Vinay Pratap Singh, Akhilesh Mathur, Krishna Murari, Mrityunjay Kumar Mishra, and Ameena Saad Al-Sumaiti
10:00-10:15	622	Rule-based Controller Design for Frequency control in Islanded Microgrids; Sugandh Singh, Vinay Pratap Singh, and Francesco Benedetto
10:15-10:30	618	A Rule-Based Energy Management System for Remote Area Hybrid Standalone Energy Systems with Hydrogen Energy Storage Systems to Improve the Reliability Tushar Kanti Roy, Md Apel Mahmud and Amanullah Maung Than Oo

TT7: Industrial Drives (ONLINE) Venue: LH7, LHC-C (Session Chair: SMT.M.C.LAVANYA, NIWE)

Date & Time 21-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	612	Efficient Evaluation of Short-Circuit Faults in Active Distribution Networks Ghanshyam Meena, Akhilesh Mathur, V. P. Singh, Krishna Murari, and Sukumar Kamalasadani
09:15-09:30	613	A Generic Load Flow solution for Droop-controlled AC Microgrids considering Electric Vehicle loads Ghanshyam Meena, Akhilesh Mathur, V. P. Singh, Krishna Murari, and Sukumar Kamalasadani
09:30-09:45	217	Recovering Below LVD Li-ion Batteries for BMS Based Rechargeable Electrical Appliances, Mohua Biswas; Md Zamilur Reza Mazumder and Tanmoy Acharya
09:45-10:00	295	Advanced Driver System for Enhanced Efficiency in Emergency LED Lights, Mohua Biswas; Md Zamilur Reza Mazumder and Tanmoy Acharya

10:00-10:15	193	Soft Switching Region Expansion for Three-Phase Dual Active Bridge based on Phase Shift Design of Wye-Asymmetric Extended Delta Transformer , <i>Olorunfemi Ojo</i>
10:15-10:30	473	ITAE Index Based Control Design Strategy to Mitigate Frequency Deviation of Renewable Integrated Islanded-Microgrid , <i>Tarun Kumar Bashishtha; Vinay Pratap Singh; Akhilesh Mathur; Krishna Murari; Mrityunjay Kumar Mishra and Ameena Saad Al-Sumaiti</i>
TT1: Power Converter and Circuits (ONLINE)		Venue: LH8, LHC-C (Session Chair: Gururaj MV IIT Kanpur)
Date & Time 21-12-2024, 9:00-10:30		
Time Slot	Paper ID	Paper Details
09:00-09:15	511	Shipboard Microgrid Frequency Control Using Error Performance Criteria <i>Akanksha V Waghmare, Vinay Pratap Singh, Akhilesh Mathur, Krishna Murari, Mrityunjay Kumar Mishra, and Ameena Saad Al-Sumaiti</i>
09:15-09:30	172	Evaluation of an Intelligent Controller for Electric Vehicle Charging with Vienna Rectifier Topology <i>Adithya Lingadahalli ; Nima Tashakor Hans Joerg Wiehoff ; Hui Wang and Stefan Goetz</i>
09:30-09:45	355	SOGI-FLL Based Advanced Adaptive Control of a PV-BES System for Weak Grid Operation <i>Mukul Chankaya, Masiha Aijaz, Ikhlaz Hussain, Shameem Ahmad Lone, and Bhim Singh</i>
09:45-10:00	143	An Improved Power Quality EV Charger Using a Modified Bridgeless Cuk Converter <i>Manish Kumar, Bhabani Kumari Choudhury and Mukesh Kumar Pathak</i>
10:00-10:15	248	Open Circuit Fault-Tolerant Two-Level STATCOM with Balanced Line Currents <i>Abanishwar Chakrabarti, Koustuv Sarkar, Soham Chakraborty, Dipten Maiti, Susovan Mukhopadhyay, and Sujit Biswas</i>
10:15-10:30	99	A Sine-Cosine Algorithm Optimized PI-PD Cascade Controller for Load Frequency Control <i>Abhineet Prakash, Kumar Abhinav, Priyush Rai, and Sanjoy Kumar Parida</i>