

TT1: Power Converter			Venue: CR1, 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 Bandarupalli; 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; Jahera 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 DSOI 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 Eswar 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 Munsi, 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. Yerramreddy 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: CR1, 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; Aman Maurya and Harish Sudhakaran Nair	
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 Totempole 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 Akhtar 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; Sonalika Singh; Ritesh Kumar Keshri; Vijay Borghate and Chandan Chakraborty	
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>Saumya 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 Gopalaratnam Narayanan</i>

TT4: Transportation	Venue: LH4, LHC-C (Session Chair: K Chinmaya, IIT BHU Varanasi)
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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 (NIT TIRUCHIRAPALLI); SHARUK SHAIK (NIT TIRUCHIRAPALLI); Shelas Sathyan (NIT-Tiruchirappalli)*; Dibyaranjan Senapati (U R Rao Satellite Centre); VENKATA SASTRY VADLAMANI (INDIAN SPACE RESEARCH ORGANIZATION)</i>
16:00-16:15	291	Anti-Resonant Tank-based Wireless Charging of EVs for Ultra-Wide Voltage Applications; <i>Sunil Kumar Gautam (Indian Institute of Technology Mandi)*; Moumita Das (IIT Mandi)</i>
16:15-16:30	312	Model Predictive Controlled Level-3 Reconfigurable Battery Charger for Future Electric Transportation; <i>HARISH KARNEDDI (IIT Madras); Deepak Ronanki (Indian Institute of Technology Madras)*</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 (C V RAMAN GLOBAL UNIVERSITY ODISHA BHUBANESWAR); MONALISA PATTNAIK (National Institute of Technology, Rourkela)*</i>
16:45-17:00	324	Fast Charging of Electric Vehicles Using a Multi-Winding Transformer <i>TASADUQ HUSSAIN (IIT DELHI)*; Ridam Kumari (IIT Delhi); Anandarup Das (IIT Delhi)</i>
17:00-17:15	383	Optimized Model Predictive Current Control for Enhanced Light Commercial Vehicle Performance <i>Alok Ranjan (IIT ISM Dhanbad)*; Dr. Vijaya Bhaskar Devara (IITISM)</i>
17:15-17:30	386	A Combined Control for Efficiency Improvement of Integrated Three-Port Dual Active Bridge Converter; <i>Kamran Asad (Varroc Engineering Limited); Nachiketa Deshmukh (IIT Kanpur)*; Mayank Deo (Varroc Engineering Limited); Pramod Chaudhary (Varroc Engineering Limited); Dr. Rakesh Maurya (SVNIT Surat)</i>

TT4: Transportation	Venue: LH5, LHC-C (Session Chair: Kunwar Aditya, IIT Jodhpur)
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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 (TEZPUR UNIVERSITY); 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)
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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>Vaishnavvignesh 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; Avaniish 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 Dhole, 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;
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,</i>
10:15-10:30	414	A Dual Output High-gain Flyback Converter for DC Microgrid Application; <i>Ananya Pritilagna Biswal, Krishna</i>
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,</i>
10:00-10:15	909	A Four Switch SiC Solid State Relay with Inrush Current Protection for High Voltage and High Power <i>Chandrasekhar, Pratik, Sanku, Debdutta Bhattacharya, and Sanku Bhattacharya</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 Hari Krishnan 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;
09:45-10:00	403	A Novel Design of Switched Reluctance Machine using the Rotor of Synchronous Reluctance Machine;
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>Kalpana 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
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 Suvendu 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
09:15-09:30	584	Hexverter Based Medium Voltage Fast-Charger with Medium Frequency Isolation; <i>Ryldham 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
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 Mamtani, Jose Mathew, Dijo 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, Mamdouh 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, Ibhanchand 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, Vaishnavvignesh 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, Avinish 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 Almakhles, 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,</i>	
17:15-17:30	633	Use of Artificial Neural Network to Predict Duty Ratio in Two Sub-modes of CI-SIDO Boost Converter;	
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	
17:00-17:15	850	Design of Compact Si-IGBT Module Based Power Converter fed Vector Controlled IM Drives For EV Application;	
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, Cheshta 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</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
16:30-16:45	728	An Analytical Approach of Higher Order Electric Vehicle System Reduction Using Truncation Based Approximation;
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</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 Vaishnavignesh 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>Sarbani 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,</i>
15:45-16:01	697	Power Extraction; <i>Akshay Chabukswar, Praveen Vankadari, Akurathi Sai Sarath Chandra, Avinash Naramu, Rahul Raj</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, Nellepalli 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>Sayantana 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 Junaaid 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 Vadamodala; 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 <i>Marif Daula Siddique, Mehdi Seyedmahmousian, Saad Mekhilef and Alex Stojcevski</i>			
09:15-09:30	971	Reduced-sensor-based OSS-MPCC for Grid-tied Inverter with LCL filter <i>Mohammad Anas Anees, Mostefa Kermadi, Saad Mekhilef, Marizan Mubin, and Marif Daula Siddique</i>			
09:30-09:45	860	Power Quality Comparison of Even and Odd Number of Levels with Active Neutral Point Clamped Configured Topologies, <i>Marif Daula Siddique; Mehdi Seyedmahmousian; Saad Mekhilef and Alex Stojcevski</i>			
09:45-10:00	121	High-Power Three-Port Converter for Efficient EV Fast Charging Using Partial Power Processing; <i>Zarren Firdous (Universiti Malaya)*; Saad Mekhilef; Marizan Mubin; Ahmed Elsanabary; Marif Daula Siddique and Obid AL Shammari Hail</i>			
10:00-10:15	305	A High-Gain Non-Isolated Boost-SEPIC DC-DC Converter, <i>Victoria T Alencar and Romero Andersen</i>			
10:15-10:30	596	Traction to Auxiliary Power Transfer in Modular EV Drivetrain; <i>Harminderjit Singh Toor; Viraj Lulla; Lakshmi Varaha Iyer; Narayan Kar and Caniggia Viana</i>			
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, <i>Varun Balan (University of Wisconsin-Madison); Maitreyee Marathe (University of Wisconsin-Madison)*; Giri Venkataramanan (University of Wisconsin-Madison)</i>			
09:15-09:30	412	Evaluation of Thermal Performance of Oil-immersed Power Electronics <i>Giri Venkataramanan; Ratnesh Singh and Dan Ludois</i>			
09:30-09:45	27	Minimum Switch Double Boost Switched Capacitor Inverter with Phase Disposition PWM Control; <i>Geno Peter, Albert Alexander S, Vijayakumar Arun and Samat Iderus</i>			
09:45-10:00	28	Double Boost Switched Capacitor Multi-Level Inverter with Modified PWM Control; <i>Geno Peter; Albert Alexander; Vijayakumar Arun and Samat Iderus</i>			
10:00-10:15	649	Comprehensive drive-cycle-based analysis of hairpin vs stranded windings for EV; <i>Mohamed Abdulsamad; Himavarsha Dhulipati and Hicham Chaoui</i>			
10:15-10:30	580	Design and Analysis of RLS-Based Torque Estimation for Control of EV Traction PMSMs, <i>Shashwat Shukla; Gourab Ghosh and Anchal Saxena</i>			
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, <i>Vikash Kumar Saini; Ameena Saad Al-Sumaiti and Rajesh Kumar</i>			
09:15-09:30	227	Sustainable Microgrids: TLBO-Driven Multi-Objective Optimization Modeling for Cost-Effective Emission-Embedded Solution, <i>Manisha; Vikash Kumar Saini; Meena Kumar; Rajesh Kumar and Ameena Saad Al-Sumaiti</i>			
09:30-09:45	515	Truncation Based Reduction of Interconnected Hybrid Power System <i>V. P. Sharma, Akhilesh Mathur, V. P. Singh, Krishna Murari, Mrityunjay Kumar Mishra, and Ameena Saad Al-Sumaiti</i>			
09:45-10:00	754	Efficient Load Frequency Regulation of Islanded Microgrids with Fractional-Order PI Controller; <i>Tarun kumar Bashishtha, Vinay Pratap Singh, Akhilesh Mathur, Krishna Murari, Mrityunjay Kumar Mishra, and Ameena Saad Al-Sumaiti</i>			
10:00-10:15	622	Rule-based Controller Design for Frequency control in Islanded Microgrids; <i>Sugandh Singh, Vinay Pratap Singh, and Francesco Benedetto</i>			
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 <i>Tushar Kanti Roy, Md Apel Mahmud and Amanullah Maung Than Oo</i>			
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 <i>Ghanshyam Meena, Akhilesh Mathur, V. P. Singh, Krishna Murari, and Sukumar Kamalasadan</i>			
09:15-09:30	613	A Generic Load Flow solution for Droop-controlled AC Microgrids considering Electric Vehicle loads <i>Ghanshyam Meena, Akhilesh Mathur, V. P. Singh, Krishna Murari, and Sukumar Kamalasadan</i>			
09:30-09:45	217	Recovering Below LVD Li-ion Batteries for BMS Based Rechargeable Electrical Appliances, <i>Mohua Biswas; Md Zamilur Reza Mazumder and Tanmoy Acharya</i>			
09:45-10:00	295	Advanced Driver System for Enhanced Efficiency in Emergency LED Lights, <i>Mohua Biswas; Md Zamilur Reza Mazumder and Tanmoy Acharya</i>			
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, Ikhtlaq 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, Piyush Rai, and Sanjoy Kumar Parida</i>