	Poster Presentation
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520	Enhancing The Frequency Deviation in MPS Utilizing Demand Response Techniques for Irregularity Between Sources and Load. Prabhat Kumar
	Vidyarthi, Ashiwani Kumar, and Ravi Shankar
528	A Multi-Objective Approach for Energy Management of Data Center Microgrid Considering Carbon Emission and Operational Cost, Rahul
320	Khajuria, Ravita Lamba, and Rajesh Kumar
542	Validation of a Novel Hybrid On-Board Charging System for Light Electric Vehicles in Hilly Terrain; Shyamantak R Barman, Anish Ahmad, and Asim
342	Datta
289	Secondary side control of Multi-vehicle Inductive charger by using a Semi-Active Bridge Rectifier for Constant Power; Bibek Kumar and Avik
209	Bhattacharya
006	Accurate Modeling Approach of Litz-Wire based Planar DD Spiral Coils for WPT Applications; Avanish Pandey, Suvendu Samanta, and Amarendra
906	Edpuganti
910	Review and Comparison of Modulation Schemes for Inductive Power Transfer Systems; Rakesh Pulletikurthi and Deepak Ronanki
930	An Optimized Hexagonal Geometry Magnetic Coupler for Floor-Mounted Electric Vehicles Wireless Charging System; Bharatiraja C, Nakkeeran R,
	and Mahesh Aganti
560	A Novel Signal Processing and Deep learning Approach for Fault Diagnosis in Grid integrated AC microgrid, Nityananda Giri, Ranjan Kumar
	Mallick, Pravati K Nayak, Sairam Mishra, Debadatta Amaresh Gadanayak, and Anasuya Roy Choudhury

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Paper ID	Paper Details (Title & Authors)
181	Coded Power Transfer for Power Electronic Converter System, Visuno Naleo, Hitesh Malviya, Anandh N, and Chandan Kumar
265	A Novel Five-Level Double Boost Inverter with Reduced Spike Current, Gudipati Maheswari, K Manjunatha Sharma, and Prajof P
419	Common-Mode Voltage Mitigation in 3-Phase 3-Level VSI with DC-bus Midpoint switching, S S Phaniram Musti, and Ravikumar Bhimasingu
493	Switch Fault Diagnosis in Single Switch DC-DC Converters, Vaishali Chapparya, Anubrata Dey, P Singh, Jose Rodriguez, and Cristian Garcia
523	Diamond(m-switch) converter topology for four-phase switched reluctance motor(SRM) drives, Sagar Gupta and Amit Kumar Jain
555	High Step-Down Gain Bridgeless Cuk PFC Converter for Battery Charging Applications, Balaram Jena and Sumit GhatakChoudhuri
566	Modelling of Coupled Inductor-Based Single Input Triple Output Boost Converter, Paban Bujor Barua and Shabari Nath
802	A Non-Isolated Multiport Converter with Wide Input Voltage Range to Enhance Ultracapacitor Utilization for Electrified Vehicles, Siddheswar Sen, Pratim Bhattacharyya, Santu Kumar Giri, Subrata Banerjee, and Hanumath Prasad Ikkurti
861	Coupled Inductor Based Regenerative Cascaded Multicell Converter for Drives with Reduced Transformer VA Rating and DC-link Capacitor, Satyam Jha and Shambhu Sau
267	An Effective Fault Detection Technique for Grid Connected Electric Vehicle Charging Station, Md Sajid Alam, Javeed Bashir, Mir Uzair Kanth, and Premalata Jena
411	A Data-Driven Deep Learning-based Prognostication for Power Grid Stability, Abhishek Saxena, Prashant Kumar, Kalpana Beura
598	Harmonic Profile of Various Loads used in Distribution System of Qatar Utility, Abdulkarim Chemidi, Shirazul Islam, and Dr. Farhad Ilahi Bakhsh
262	Improved Active Frequency Drift Islanding Detection Method for Grid-Tied Distributed Energy Resources; Vijay Mohale, Rajkumar Chougale,
363	Praveenkumar A Patel, and Vilas Bugade
182	Model Reference Adaptive System Based on Ultra-Local Model for Induction Motor Drives. Md Asif Hussain, Ananda Shankar Hati, and Vinod
102	Khadkikar
226	Development of Multi-Pulse Rectifier System Based on Multi-phase Conversion and Phase Displacement Technique for Medium Voltage Motor
	Drive; Rohit Kumar and Bhim Singh
309	Investigation of the Impact of Holes on the Performance of Multilayer Interior Permanent Magnet Synchronous Machines, Abhishek Shukla and
372	Saptarshi Basak Eshanding Duing Burfarmana aging Minad Onder Elem Observed driver Sangadag Control of DMSM. Alab Burian and Viima Blanker Danner.
312	Enhancing Drive Performance using Mixed-Order Flux Observer driven Sensorless Control of PMSM, Alok Ranjan and Vijaya Bhaskar Devara Design and Analysis of Linear Electromagnetic Actuator for Automobile Active Suspension System, Don Vinit XV, Sai Krishna Mulpuri, and Praveen
642	Kumar
0.57	Realization of Machine Learning Algorithms for Diagnosing Winding Faults in Induction Motors, Abitha Memala W, Mercy Paul Selvan, Mohan Ram
857	S, Brindavan T.V, and Raja Singh R
45	MTPA Control of Interior PMSM and BLDC Motor using FE and MATLAB Co-simulation, Akriti Sonkar, Sashidhar Sampathirao, and Bidyadhar
73	Subudhi
201	Finite Element-Based Inter-turn Fault Analysis in Closed Loop Induction Motor Drive Using Machine Learning, Praveen Kumar N
37	Modelling of Cross-Saturation in a PMa-SyRM using Polynomial Reduction Method, Saipriya Chelluboyina and Sashidhar Sampathirao
57	Enhanced Direct Torque Control Strategies for In-Wheel Switched Reluctance Motors: Evaluating Sector and Voltage Vector Selection Techniques,
	Deepak M and Bharatiraja C
646	Load Matching in Single-Stage Constant Power Series-Parallel Compensated Inductive Charging with High Voltage Gain, Rohan Sandeep Burye and
	Sheron Figarado
667	Comprehensive Analysis of Thermal Effects on PMSM Drive Control in Small Commercial Vehicles, Alok Ranjan, Vijaya Bhaskar Devara, Prashant
	Kumar, and Utkal Ranjan Muduli FPGA Based Improved State-of-Charge Estimation Using Modified Coulomb Counting method for Lithium-Ion Battery, Sourabh Das, Susovon
674	Samanta, and Supratim Gupta
	Advanced Control and Modeling for Enhanced BLDC Motor Efficiency and Performance, Amitesh Prakash, Vijaya Bhaskar Devara, Alok Ranjan
722	Prashant Kumar, and Utkal Ranjan Muduli
749	Enhancing Efficiency in Dual-Motor Four-Wheel Drive Electric Vehicles via Power Sharing Optimisation, Amit kumar, Ranjan Kumar Behera
	MRAS and α'β'- framed SVPWM based modified FS-MPC for PMSM Drive Powered by Five-Level TF-type Inverter for EV Applications, <i>Priyankar</i>
835	Roy, Haricharan Nannam, Pothuraju Ramakrishna, and A Bandyopadhyay
581	ISTE and IST2E Based PID Control for Frequency Control of Shipboard Microgrid, Akanksha V Waghmare, Vinay Pratap Singh, Akhilesh Mathur,
	Subho Paul, and Krishna Murari
609	Adaptive Neuro-Fuzzy Inference-Based Control of Parallel Connected DC-DC Converters for DC Microgrid Application, Musharraf Ali Haider Ali Saddriwala, Mohd Alam, Narayana Murthy Malladi
615	Modelling and Identification of Lithium-Ion Battery Using Relay Feedback Response, Saurabh Pandey, Bheemaiah Chikondra, and Vijay Kumar Singh
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653	Improved Boost Type-ANPC 5L Inverter Topology; Jagabar S Sathik, Arpan Hota, Vigna K Ramachandaramurth, Mamdouh L. Alghayth, and Vivek Agarwal
640	Data-Driven Performance Degradation Prediction of PEM Fuel Cell using Bi-GRU, Janvi Sharma, Rahul Khajuria, Ravita Lamba, Rajesh Kumar, and Surender Hans
641	Inertia Synthesis for AHO Controlled Converters in Smart Transformer Based Distribution Systems, Sahil Gaurav and Chandan Kumar
643	Frequency Response Assessment of Inverter Dominated Power System under Grid Abnormalities, Komal Singh, Abhishek Dilipbhai Tank, Rabindra Mohanty, Avanish Tripathi, and Ashu Verma
663	A Practical Approach for Estimating State of Health of Li-Ion Batteries in Electric Vehicles, Prashant K Aher, Taufiq Ansar Patel, S.L. Patil, Abhishek Mandhana, and Rhugved Rane
790	A Regenerative Weak-Grid Emulator for Distributed Generation Test Benches; Aravind G, Divyanshu Bansal, and L. Umanand
458	Voltage Stabilization of a SEIG-based micro-hydro System using Static Synchronous Series Compensator; Swagat Pati, Amar Bijaya Nanda, Binod Sahu, Abhijeet Choudhury, and Subinay Das
978	Predictive Phase-Shift Control of Interleaved Quadratic Buck Converter as the Power Supply of the Electrolyzer in Green Hydrogen Technology; S. Alireza Davari, Freddy Flores, Mahdi S. Mousavi, Shirin Azadi, Samir Kouro, Cristian Garcia, and Jose Rodriguez
677	Machine Learning Based State of Charge Estimation and Real-Time Battery Monitoring System, Sourabh Das, Shirsaa Mishra, Uttam Raghab, and Susovon Samanta
683	Parameter Estimation and Optimal Charging Discharging Pattern for Supercapacitor, Subash M, and Selvajyothi K

	Poster Presentation
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Paper ID	Paper Details (Title & Authors)
31	An Improved Soft Switched SEPIC Topology for High Gain Static Power Supply, Tapas Halder
113	A Novel Sampling Mechanism for a Digital Average Current-Mode Controlled Buck Converter Under Leading-Edge Modulation, Snehamoy Patra
113	and Amit Kumar Singha
831	Seamless Mode Transition of a VSI in a 3-Phase Standalone Microgrid, Sounavo Ghosh and Parthasarathi Sensarma
244	A Quadruple Boost Nine Level Inverter Performance in Power Conversion, Biswajit Sarangi, Sukhdev Singh Neti, and Varsha Singh
262	Fixed Frequency-Based Oscillation Mitigation Technique for Solid State Circuit Breaker in DC Microgrid Applications, Salai Thavakkodi S V, Senthil
	Kumar Subramaniam, and Aravind C K
274	Amplitude Error Based Frequency Deviation Detection for Grid Voltage Parameters Tracking, Chandrasekaran S and Sandeep Negi
283	Implementation of a Novel Nine-Level Quadruple Boosting Inverter, Gudipati Maheswari , K Manjunatha Sharma, and Prajof P
300	Third harmonic injection with carrier-reassignment PWM for a nine-level grid connected CHB inverter, Little Pradhan and Abhijit Kshirsagar
371	Adaptive Model Predictive Control of Dual Output Three-Level Inverter, Rangoli Singh, Dhawal Dwivedi, Sandip Ghosh, and Chinmaya K A
	OPTIMAL DESIGN AND PERFORMANCE ANALYSIS OF MODEL PREDICTIVE CONTROL FOR EV CHARGING APPLICATION, Kaumudi
404	Kumari and Mukhtiar Singh
503	Triple Active Bridge Converter for Solar PV-Assisted EV Charging, Gudelli Shivakumar, Bighnaraj Panda, and Amarendra Edpuganti
189	Improved ANPC Three-Level Inverter with Voltage Boosting Ability; Jagabar S Sathik, Vigna K Ramchandramurthy, Dhananjaya M, Mamdouh L.
169	Alghaythi, and Meshari Alshammari and Saad Mekhilef
623	A Multiport Converter as an Onboard Electric Vehicle Charger: Enabling 800V Battery Charging from 400V EVSE, Jay Damodar Pandya, Arun
023	Chandrasekharan Nair, Anilkumar Davu, and Surender Elumalai
748	Single Source Floating Capacitor Fed Multi-Level Open-End Winding Induction Motor Drive with Extended Linear Modulation Range and
	Minimum Number of Switches, Vasuda K V, Remya K P, and Jaison Mathew
815	Voltage Multiplier Cell-Based Enhanced Quadratic Buck-Boost DC-DC Converter with Reduced Switch Current Stress, Kumaravel S and NINU JOY
813	Volt/Var Control of Smart Transformer fed Active Distribution Networks, Arunima Dutta, Sanjib Ganguly, and Chandan Kumar
	Impact Analysis of EV Charging System on Grid With and Without Solar PV Integrated System, Akash Prakash Ganne, Lalit Kumar Sahu, and
884	Hemachander Allamsetty
256	An Enhanced Voltage Support Control strategy with Improved Active Power Deliverability of a DG During Unbalanced Microgrid Faults; Suresh
356	Maganti, Naveen Yalla, Jayaram Nakka, Ali Hussain Almarzooqi, Sajan K Sadanandan, and Tareg Ghaoud
272	Performance of Distributed OPF Algorithm with ZIP Loads and Different PV Inverter Modes; Subho Paul
115	Closed Loop Control of Induction Motor Operated with Hybrid PWM(SVM+SOPWM) at Low Switching Frequency for Traction Applications;
_	Gudaru Venkaiah Katuri and Amit Kumar Jain
280	Vulnerability Analysis of Torque Controlled PMSM Drives against Sophisticated Data Integrity Attacks, Chandni Asok, Easwar Veeragandham,
360	Deepak Ronanki, and Apparao Dekka Sliding Mode Observer based Predictive Torque Control of PMa-SynRM, Bharath Kasoju and V Praveenkumar Kunisetti
863	Peer-to-Peer Energy Trading among Electricity-Hydrogen DC Microgrids; Avirup Maulik, Alok Kumar, and Chinmaya K A
803	Robust Sliding Mode Observer based Speed Sensorless Control of FPIM for Wide range of Speed Operation, Seshadri Bhusan Sahoo and Ranjan
745	Kumar Behera
838	Fractional Order Relaxation Model for Supercapacitors, Geethi Krishnan and Vivek Agarwal
689	Sliding Mode Current Control in Multiple Batteries based DC Microgrid, Rohan Lalwani, Barjeev Tyagi, and Vishal Kumar
690	Enhanced Grid Stability using Virtual Inertia Control Strategy for DC Microgrids, Suryakant Kumar, Gauri Shankar, Lakshmi Srinivas Vedantham
	and Prashant Kumar An Islanding Identification Strategy based on Disturbance Injection and Wayslet Transform, Sunga Musucasan and Southil Kumar M.
712	An Islanding Identification Strategy based on Disturbance Injection and Wavelet Transform, Suman Murugesan and Senthil Kumar M Pre-Processing Measurement Data for Computing Internal DC Resistance with Anomaly Detection Techniques, Shaurya Pandey, Sarbani Mandal,
716	Bikash Sah, Sai Krishna Mulpuri, and Praveen Kumar
720	Performance Evaluation of Charging Techniques for Lithium-Ion Batteries, Sanjeev S Raja, Harish Karneddi, and Deepak Ronanki
743	Enhanced Power Management in a DC Microgrid through Virtual Inertia Integration, Suryakant Kumar, Gauri Shankar, Lakshmi Srinivas Vedantham,
	and Prashant Kumar
761	An Improved Maximum Power Point Tracking of PV Source using Parametric Estimation, Seelam Poornima, Kotapati Anuradha, Shiva Prasad, and
761	Vamshi Krishna Bandaru
764	A Novel Passive Islanding Detection Strategy for DC Microgrid, Suman Murugesan and Sweety Yadav
770	Performance Characteristics Assessment of Dual Rotor Single Stator Five-Phase Surface-Inset PMSG for Hydroelectric Systems, Raja Ram Kumar,
	Arpita Roy, Priyanka Pal, Kundan Kumar, and Shekha Rai
775	Modeling & Control of SPV Integration with HESS, Annavarapu Ankamma Naidu, Barjeev Tyagi, and Vishal Kumar Modeling and Analysis of Frequency Modulated LLC Resonant Converter for Deeply Depleted Battery Charging Applications, Anil Marneni,
776	Thatipelli Shivaji, Pravin Murugesan, and Senthil Kumar Subramaniam
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778	An agile solution to estimate the capacity of virtual energy of refrigerator using ANN, Praveenkumar Rajendiran and Vijayakumar Krishnasamy
785	Minimization of Simple Payback Time Through Reactive Power Injection & KVA Billing in MW Scale Solar PV Power Plant, Dev Kumar Manhar, Avanish Tripathi, Rabindra Mohanty
969	Design and Analysis of IPMSM with Modular Stator Structure for Electric Vehicular Applications; Gowtham Vegireddy, Deepak Ronanki, and Apparao Dekka
729	Reduced Order Modeling of Higher Order Fuel Cell System for Electric Vehicle Application; Rahila Parveen, P. D. Dewangan, S. L. Sinha, and Vinay Pratap Singh
740	Resilient PMSM Motor Control: Advanced Fault-Tolerant Strategies for Open-Phase Faults; Alok Ranjan and Vijaya Bhaskar Devara
180	Design and Testing of Coordinated Controller for PV Assisted Municipal Solid Waste Fueled EV Charging Station; Perwez Alam and Thanga Raj Chelliah
806	Real Coefficient Assessment with Improved Adaptive Control for Grid-Tied DSTATCOM, Utkal Ranjan Muduli
905	Comparative Analysis of optimal PV Array Reconfiguration under Partial Shaded Condition; Kayalvizhi Selvam, Sujeet Kumar Patel, and Arulraj R
873	Three-Phase Interleaved Bidirectional Resonant Converter for Charging / Discharging Infrastructure, Nishant Kumar, Mayank Kumar

	Poster Presentation
TT1- TT7	21-12-2024, 10:30-11:00 am (Dr. BharthiRaj,SRM University and Dr. Dastagiri Reddy NITK) Venue: LHC-C, Ground Floor
Paper ID	Paper Details (Title & Authors)
810	A PV Grid Tied Modified Z-Source Inverter for an Inductive Wireless EV Charging System, Bharatiraja C and Ramanathan G
40	Optimized Design of The CUK Power Converter Topology, Tapas Halder
5.0	A Novel High-Gain Non-Inverted Voltage-Lift Switched-Capacitor DC-DC Step-Up Converter, Miteshkumar Bharatbhai Patel, Jayaram Nakka, and
56	Gaurav
66	A novel six-switch isolated DC-DC converter with an isolated port providing DC Transformer gain and two non-isolated ports serving reciprocal non-
	inverting buck-boost voltage gain for EV applications, Arkabrata Dattaroy and Avik Bhattacharya
75	Efficient Dual-Input DC-DC Converter Design for Fuel Cell Electric Vehicle Integration, Kalpana Chaudhary and Aman Gope
166	Advanced Modulation Control for Three-Phase Single-Stage DC-AC Conversion with Optimized Filter Reduction, Venkataramanaiah Jammala and
160	Anvi Gajjar Evil Onder Discrete Time Medelling of High Coin Switched Conceitor Convertor Jokita Discrete and Debangaged Vasales
169 223	Full Order Discrete Time Modelling of High Gain Switched Capacitor Converter, Ishita Biswas and Debaprasad Kastha Common-Ground-Type Dual-Source Switched-Capacitor Multilevel Inverter, Deepak Singh and Sandeep N
223	Inductor current feed-forward based Single-loop dq control scheme for Standalone Inverter System, Vaishnavvignesh G Iyer, Cilaveni Satish Chandra,
276	Ravindranath Adda, and Sreenath J G
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