IEEE PESGRE 2025
Tentative Schedule of Paper Presentations in Technical Tracks

Oral Session OP1:	**Dec 19th**	**09:00 - 10:30**	**TR01 through TR13 denote parallel sessions aligned to Themes/Topics**
Oral Session OP2:	**Dec 20th**	**09:00 - 10:30**	
Oral Session OP3:	**Dec 21th**	**09:30 - 11:00**	**V0.2 2025/12/4**

# Paper ID	Session	SubTrack	Paper Title	Authors
19	OP1	TR01	Loss-Aware and Thermally-Constrained Design Strategy for 200 kW SiC based Stack	Uppal Das (Indian Institute of Science)*; Surjakanta Mazumder (Indian Institute of Science, Bengaluru); Manish Mandal (Indian Institute of Science Bangalore); Shamibrota Kishore Roy (Indian Institute of Science); Kaushik Basu (IISc-Bangalore)
76	OP1	TR01	A Data-driven Loss Model of GaN-HEMT-based Synchronous Buck Converter with Critical Operating Frequency	Subhradip Mukherjee (Subhradip Mukherjee)*; Mahesh Kumar (IIT Madras); N. Lakshminarasamma (IIT Madras)
141	OP1	TR01	Desaturation Protection Design for SiC MOSFETs With a Low (1.5 us) Short-Circuit Clearance Time	Ravi Teja Pogulaguntla (IIT Madras)*; Arun Karuppaswamy Balasubramanian (IIT Madras)
198	OP1	TR01	Design and Experimental Validation of a Half-Bridge Gate Driver for SiC MOSFETs	Ravi Teja Pogulaguntla (IIT Madras)*; Arun Karuppaswamy Balasubramanian (IIT Madras)
322	OP1	TR01	Selection of Negative Gate Voltage for GaN HEMTs Considering Switching Oscillations and Loss Minimization	Venkata Raghavendra I (IIT BOMBAY)*; Sandeep Anand (IIT BOMBAY)
434	OP1	TR01	Comparative Analysis of EMI in Multilevel Inverters With Si and SiC Power Devices	Sarvvesh R (BMS College of Engineering, Bangalore); Dinakar R (BMS College of Engineering, Bangalore); saniya Ahamad (BMS College of Engineering, Bangalore); saicharan K (BMS College of Engineering, Bangalore); Soniya Agrawal (BMS College of Engineering, Bangalore)*; Prema V (BMS College of Engineering, Bangalore)
72	OP1	TR04	Multi-Port Fast EV Charging Architecture with Renewable Integration and Adaptive Filtering for Power Quality Enhancement	PAVAN SINGH (INSTITUTE OF ENGINEERING & TECHNOLOGY LUCKNOW)*; Divyank srivastava (INSTITUTE OF ENGINEERING & TECHNOLOGY LUCKNOW); Bhim Singh (IIT DELHI); Arunima Verma (INSTITUTE OF ENGINEERING & TECHNOLOGY LUCKNOW); Saurabh Mani Tripathi (Kamla Nehru Institute of Technology, Sultanpur)
161	OP1	TR04	A New Nine-Level Power Factor Correction Converter with Triple-Output For EV Applications	RUTTALA SRINU (NATIONAL INSTITUTE OF TECHNOLOGY ANDHRAPRADESH)*
194	OP1	TR04	1-Φ and 3-Φ Reconfigurable Highly Efficient Reduced Stage Isolated EV Charger with Active Power Pulsation Buffer	Gyana Sahoo (IIT, Bombay)*; Akash Kumar Swain (Indian Institute of Technology, Bombay); Vivek Agarwal (Indian Institute of Technology, Bombay)
202	OP1	TR04	Improved Efficiency and Dynamic Performance of Series-Series Compensated EV Wireless Charging via Partial Power Conversion	Sandhadi Naveena (Andhra University)*; Srinu naik Ramavathu (Andra University); Neelesh Yadav (Tallinn University of Technology)
209	OP1	TR04	Power Ripple and Loss Minimization in Parallel Hybrid Wireless Charger Using Modified On-Off Keying Modulation Scheme	Rakesh Pulletikurthi (Indian Institute of Technology Madras); Deepak Ronanki (Indian Institute of Technology Madras)*
338	OP1	TR04	Quantitative Comparative Analysis of Distinct Modulation Strategies for Isolated Three-phase Matrix-based AC-DC Converter	Shubham Naryani (indian institute of technology, palakkad)*; Jaydeep Saha (NUS, Singapore); Naga Brahmendra Yadav Gorla (IIT,Palakkad)
102	OP1	TR06	Fault Detection in NPC Inverter using Machine Learning	Suryansh Srivastava (National Institute of Tecchnology Andhra pradesh)*; Meher Pradeepthi Gourishetty (Indian Institute of Technology BHU); Chinmaya K. A. (Indian Institute of Technology BHU); Sandeep VUDDANTI (National Institute of Tecchnology Andhra pradesh)

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258	OP1	TR06	AI-Enabled Early Fault Localization in Grid-Connected Hybrid Modular Multilevel Converter	Narayana Murthy M (VNIT NAGPUR); MOHD ALAM (VNIT NAGPUR)*; Narendrababu A (VNIT NAGPUR)
270	OP1	TR06	An 11-Level Common-Ground Multilevel Quintuple-Boost Inverter for Grid-Tied PV Applications	Deepak Singh (Indian Institute of Technology Kanpur)*; Sandeep N (MNIT Jaipur); Piyush Kant (IIT Kanpur)
315	OP1	TR06	Submodule Thermal Balance Technique for Medium Voltage MMC with Arm Voltage Sensors	Rupam Chaki (Indian Institute of Technology Roorkee)*; Abhishek Kumar (Indian Institute of Technology Roorkee); Anubrata Dey (INDIAN INSTITUTE OF TECHNOLOGY (IIT), ROORKEE); Rupak Chakraborty (Austrian Institute of Technology Vienna)
357	OP1	TR06	RELIABILITY ASSESSMENT OF THE FAULT-TOLERANT MULTILEVEL INVERTER WITH FEWER COMPONENTS	PAVAN KUMAR (Kakatiya Institute of Technology and Science)*; NARASIMHA RAO M (Kakatiya Institute of Technology and Science); MADHUKAR RAO A (Kakatiya Institute of Technology and Science)
430	OP1	TR06	Virtual Oscillator based Dual Loop Control for Grid Forming Modular Multilevel Converter	Hitesh Malviya (IIT Guwahati)*; Sahil Gaurav (IIT Guwahati); Chandan Kumar (IIT Guwahati)
234	OP1	TR07	Control of Permanent Magnet Synchronous Generator based Wind Energy Generation with Solar PV Connected to 3-Phase Grid for EV charging	SANJAY KUMAR (IIT Bhilai)*; SHAILENDRA KUMAR (IIT Bhilai); BHIM SINGH (IIT Delhi)
240	OP1	TR07	Decoupled Control of Parallel-Connected Dual Split-Phase Induction Motors with Fundamental and Seventh Harmonic Phase Sequence	Ahna Fathima (IIST)*; Krupa Kurian (IIST); Sudharshan Kaarthik (IIST)
247	OP1	TR07	Fault-Tolerant Control for Dual Three-Level Inverter Fed Five-Phase OEW-PMSM Drives Under Open-Circuit Faults	Mohan Malla (National Institute of Technology Andhra Pradesh)*; Tejavathu Ramesh (National Institute of Technology Andhra Pradesh)
273	OP1	TR07	Closed Loop Control of High Power BLDC Motor for Launch Vehicle Application	Radhika Gopal (Government Engineering College Palakkad) <radhikargopal5@gmail.com> * Vidhun M (Government Engineering College Palakkad) <vidhunm@gecskp.ac.in>
274	OP1	TR07	Field Oriented Control Scheme of PMSM drive for Launch Vehicle Applications	RAYYA T C (Government Engineering College, Palakkad)*; Vinita Chellappan (Government Engineering College, Palakkad); Sangeetha V (Government Engineering College, Palakkad)
345	OP1	TR07	Load-Side Control for a Battery-Integrated Dual-Winding Magnetic Energy Harvester	Asaf Levhar (ben gurion university)*; Riccardo Mandrioli (University of Bologna); Alon Kuperman (ben gurion university)
36	OP1	TR08	A Data-Driven LPSP Algorithm for Optimal Design of Off-grid PV – Battery Systems	Manimegalai S. (Vellore Institute of Technology, Chennai); Binu Ben Jose D. R. (Vellore Institute of Technology, Chennai)*
63	OP1	TR08	A Hybrid HOGI-ANN Synchronization Technique for Fast Estimation of Grid Voltage Parameters Under Distorted Grid Conditions	Sapram Giridhar (NIT Hamirpur); Chandrasekaran S (NIT Hamirpur)*; Ashwani Chandel (NIT Hamirpur)
92	OP1	TR08	Ensembled deep learning algorithms for anomaly detection in batteries	Yeddula Likitha Reddy (Amrita Vishwa Vidyapeetham); Chinthakunta Sai Jagruth (Amrita Vishwa Vidyapeetham); Adithya U K (Amrita Vishwa Vidyapeetham); Ananth Patnaik S (Amrita Vishwa Vidyapeetham); Rahul Satheesh (Amrita Vishwa Vidyapeetham)*; Sivaprasad Athikkal (Muthoot Institute of Technology and Science)

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# Paper ID	Session	SubTrack	Paper Title	Authors
100	OP1	TR08	Machine Learning Based Prediction and Condition Monitoring of PV Plant	Dr. N. Rama Devi (BEC)*; Mallika Kothapalli (Bapatla Engineering College); Kireeti Panchadarla (Bapatla Engineering College); Mohan bhavani Nayani (Bapatla Engineering College); Vinay Thota (Bapatla Engineering College)
126	OP1	TR08	Decision Tree-Based Diagnostic Method for Series DC Arc Faults	Sarvesh Wakode (Visvesvaraya National Institute of Technology, Nagpur)*; Makarand Ballal (Visvesvaraya National Institute of Technology, Nagpur)
412	OP1	TR08	EV Charging Demand Forecasting using Machine Learning Models: A Data-Driven Approach for Optimizing Charging Station Capacity	Raghavendra Naik (PostDoc-Researcher at Aalborg University, Denmark and National University of Technology Jamshedpur)*; M K Siva Krishna Prasad (SRM University-AP); Dipanshu Naware (NIT Tiruchirappalli); Ishan Srivastava (Babasaheb Bhimrao Ambedkar University)
43	OP1	TR09	Performance Analysis of PV fed High Gain Converter using Adaptive Fuzzy Logic Controller	GOBIKA NIHEDHINI (NIT, PUDUCHERRY)*; THANGAVEL S (NIT PUDUCHERRY)
83	OP1	TR09	A Novel Isolated Three-Port Converter based on Dual-Flyback for Solar PV Integrated E-Boat Applications	Ritika Yadav (Indian Institute Of Technology (BHU), Varanasi)*; Chinmaya K A (Indian Institute Of Technology (BHU), Varanasi)
189	OP1	TR09	Comparative Analysis of Voltage and Current Source Gate Driver for PV Applications	Vrundesh Pawde (VNIT, Nagpur); Ritesh Keshri (Visvesvaraya National Institute of Technology, Nagpur)*
205	OP1	TR09	A Grid-Connected Transformerless Five-Level Inverter for Single-Phase PV Application	Sanket Tambe (IIT Roorkee)*; Anubrata Dey (IIT Roorkee); Snehasish Pal (HETC)
238	OP1	TR09	A Cost-Effective Non-Isolated Forward-Based Universal Micro-Converter for PV: Comparison with Interleaved Single-Stage Flyback Topology	Oleksandr Husev (WUT)*; Hossein Afshari (Tallinn University of Technology); Dmitri Vinnikov (Tallinn University of Technology); Oleksandr Matiushkin (Tallinn University of Technology); Mariusz Malinowski (Warsaw University of Technology)
337	OP1	TR09	Design of a Wind Emulator for Grid-Connected Type-IV Wind Energy Conversion Systems	Abhishek Kumar (Indian Institute of Technology Roorkee)*; Rupam Chaki (Indian Institute of Technology Roorkee); Anubrata Dey (INDIAN INSTITUTE OF TECHNOLOGY (IIT), ROORKEE)
146	OP1	TR10	Design Optimization of Ferrite Based Axial Flux PM Machine for Low-Speed Applications	Deepak kumar (Indian Institute of Technology,Mandi)*; Himanshu Misra (Indian Institute of technology,Mandi)
162	OP1	TR10	Investigation on Low-Cost Spoke-type BLDC Motor Design with Sinusoidal Back-EMF for Home Appliances	Gowtham Vegireddy (IFB Industries Limited)*; K Karthikeyan (IFB Industries Limited); Shashi Kumar K B (IFB Industries Limited); Rishiraj Sarker (IFB Industries Limited); Md Idhirees Khan (IFB Industries Limited); Anand Reddy (IFB Industries Limited)
266	OP1	TR10	Health Assessment of Solid Insulation in Power Transformers using Analytic Hierarchy Processed Weighted Scoring Technique	MULPURU GOPI (National Institute of Technology Srinagar)*; Chilaka Ranga (NIT Raipur); Kushal M Japtap (NIT, Srinagar); Teruvai Manoj (NIT AP)
292	OP1	TR10	Optimal Distribution of Pole Area and Its Angular Separation on Braking Performance in Eddy Current Brakes	SRI ROSHAN (IIT(ISM) DHANBAD)*; Sethupathy Subramanian (IIT (ISM) Dhanbad)
311	OP1	TR10	Parametric Study on the Effect of Pole Area and Radial Placement of Poles in Disk Eddy Current Braking Systems for Electric Transportation	SRI ROSHAN (IIT(ISM) DHANBAD)*; sethupathy subramanian (IIT (ISM) Dhanbad)
336	OP1	TR10	Investigation on Switched Reluctance Motors With and Without Permanent Magnets	Aprameya Karthik Susarla Ramanathan (Indian Institute of Technology Madras); Deepak Ronanki (Indian Institute of Technology Madras)*; Bijo Sebastian (Indian Institute of Technology Madras)

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73	OP1	TR11	Grid-Interactive Solar PV-BES System with Sensorless PMSM Drive and MQCC-Based Power Management for Smart Water Pumping	WAZID ALI (INSTITUTE OF ENGINEERING & TECHNOLOGY LUCKNOW)*; Divyank Srivastava (Institute of Engineering & Technology Lucknow); Bhim Singh (IIT Delhi); Arunima Verma (INSTITUTE OF ENGINEERING & TECHNOLOGY LUCKNOW); Saurabh Mani Tripathi (Kamal Nehru Institute of Technology Sultanpur)
86	OP1	TR11	Power Quality Improvement in PV-Coupled Dual Multi-Level Converter System Using PI Voltage Regulator	Rupa Boddapati (Osmania University)*
306	OP1	TR11	Robust SOC Estimation Under Initial Uncertainty Using a One-Dimensional Kalman Filter	Anshul Rawat (Indian Institute of Technology); Aaqib Ahmad (Indian Institute of Technology)*; A.V Ravi Teja (Indian Institute of Technology)
330	OP1	TR11	Model Free Predictive Current Control Method with Torque Ripple Reduction in Switched Reluctance	Prabhat . (IIT ROPAR); Vishali Guleria (GHEC, Bandla, Himachal pradesh, India); A.V.Ravi Teja (IIT ROPAR)*
331	OP1	TR11	Robust SMC Control Law for IFOC of Induction Motors Incorporating Hyperbolic Tangent Function	ROHIT RAJ (INDIAN INSTITUTE OF TECHNOLOGY ROORKEE)*; ASAD HUSSAIN (INDIAN INSTITUTE OF TECHNOLOGY ROORKEE); JYOTI RANJAN DASH (INDIAN INSTITUTE OF TECHNOLOGY ROORKEE); PRAMOD AGARWAL (INDIAN INSTITUTE OF TECHNOLOGY ROORKEE); SHARMILI DAS (INDIAN INSTITUTE OF TECHNOLOGY ROORKEE)
394	OP1	TR11	Intelligent Air Conditioning System with Solar PV and Load Monitoring	Gautam Raiker (Indian Institute of Science Bangalore)*; Sethu Madhavi Ramala (Indian Institute of Science Bangalore); Subba Reddy B (Indian Institute of Science Bangalore)
50	OP1	TR12	Adaptive Directional Overcurrent Relay for Active Distribution Networks	Chirumamilla Navya (iit kharagpur)*; Gade kesava rao (iit kharagpur); Ashok kumar Pradhan (iit kharagpur)
82	OP1	TR12	Accurate Fault Location Calculation in a DG Penetrated System using Modified Takagi Method	Abhijith Suresh (Government Engineering College Barton hill)*; Vinod V (Government Engineering College Barton Hill); Vivek R.S. (College of Engineering Thiruvananthapuram); Sunil Kumar P.R. (Government Engineering College Idukki)
95	OP1	TR12	Analysis of current limiting strategies of droop controlled grid forming inverters on delayed voltage recovery events	Upendran Mukundarajan (IIT Madras)*; Shanti Swarup K. (IIT Madras)
96	OP1	TR12	Low-Voltage Ride-Through Operation of a New Pumped Hydro Storage System with Model Predictive Current Control	BHUMA NAGA SATYASAI VEMPALI (IIT Madras); DEEPAK RONANKI (IIT Madras)*; APPARAO DEKKA (Lakehead University)
138	OP1	TR12	Arc Fault Localization in Low-Voltage Distribution Systems Using Transformer-Aided DOA Estimation	Ratnakar Nutenki (IIT Kharagpur)*; Haraprasad Badajena (IIT Kharagpur); Aurobinda Routray (IIT Kharagpur); Ashok Kumar Pradhan (IIT Kharagpur)
426	OP1	TR12	Signal Construction-Based Ultra-Fast Protection Scheme for DC Feeder of an AC/DC Microgrid	Kamal Kant (Govt. Engineering College, Sheikhpura, Bihar); Salauddin Ansari (Government Polytechnic, Motihari, Bihar); Om Hari Gupta (NIT Jamashedpur, India); Krishna Murari (IIT Bhilai); Sukumar Kamalasadan (University of North Carolina at Charlotte)*
181	OP1	TR13	A Comparative Study of Grid Forming Inverter Controls and Their Applications for Improving Resilience of Distribution Systems	MOHAMMED FARSHID K (IIT ROORKEE)*; HIMANSHU JAIN (IIT ROORKEE)
190	OP1	TR13	Novel Zero-Bus Logic OR-Based Load Flow for Techno-Economic Optimization of RDNs via Coordinated DG and EVCS Placement	Anagha Rajendran K P (BITS Pilani, K K Birla Goa Campus)*; Soumyabrata Barik (IIT(ISM) Dhanbad); Sudarshan Swain (BITS Pilani, K K Birla Goa Campus)

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199	OP1	TR13	Frequency Regulation of Isolated PV-Synchronous Generator System Using Virtual Inertia Controller	Jayaprakash Allemshetty (University College of Engineering Osmania University); Mangu Bhukya (Osmania University)*
250	OP1	TR13	Multi-Source Energy Hub for EV Charging: Integration of Solar PV, Fuel Cells, and Battery Storage with Grid Infrastructure	JAVED ANSARI (NTPC LTd.)*; saran Chaurasia (Department of Electrical Engineering Indian Institute of Technology Delhi); Shivam Kumar Yadav (Department of Electrical Engineering Indian Institute of Technology Delhi); Bhim Singh (Department of Electrical Engineering Indian Institute of Technology Delhi); Kuldeep Sahay (I E T Lucknow)
410	OP1	TR13	A Model Predictive Control Scheme for Power Sharing in Open-End Winding Transformer based Microgrids	Rajeevan PP (Indian Institute of Space Science and Technology)*; Naufal N (Indian Institute of Space Science and Technology); Rajesh Joseph Abraham (Indian Institute of Space Science and Technology)
431	OP1	TR13	Virtual Oscillator Control-Enabled Unbalanced Fault Ride-Through in Smart Transformer-Based AC Microgrids	Sahil Gaurav (Indian Institute of Technology Guwahati)*; Lakshmi Kant Rao (Indian Institute of Technology Guwahati); Chandan Kumar (Indian Institute of Technology Guwahati)
57	OP2	TR02	Interactive Power Electronics Education Using Jupyter Notebook and the GSEIM Simulation Package	Nakul Narayanan (GEC TCR)*; Mahesh B Patil (IIT Bombay)
108	OP2	TR02	Constraint-Driven Control of SEPIC Converters Using Offline-Optimized MPC	Rangoli Singh (IIT BHU); Shiv Prakash (IIT BHU)*; Dhawal Dwivedi (IIT BHU); Sandip Ghosh (IIT BHU); Chinmaya K. A. (IIT BHU)
109	OP2	TR02	Active Input Power Control for SONAR Application	Joseph Mathew (IIT Madras)*; Akshat Saini (IIT Madras); Lakshminarasamma N (IIT Madras); Panchalai V N (NPOL)
115	OP2	TR02	An Improved Ultra-Gain Quadratic Boost Converter with Lower Voltage Stress for Fuel Cell Applications	Ravi Kanaparthi (visvesvaraya national institute of technology)*; Jay prakash singh (visvesvaraya national institute of technology (VNIT),Nagpur); Makarand sudhakar ballal (visvesvaraya national institute of technology (VNIT), Nagpur)
124	OP2	TR02	Comparative Analysis of Phase Shift Modulation Strategies of Dual Active Bridge Converter	Pavani Gupta (Indian Institute of Technology (BHU) Varanasi)*; Pragya Singh (Indian Institute of Technology (BHU) Varanasi); Dhawal Dwivedi (Indian Institute of Technology (BHU) Varanasi); Chinmaya K A (Indian Institute of Technology (BHU) Varanasi)
135	OP2	TR02	Non-Active Power Control of Single Phase Dual Active Bridge for improved performance	AMRITHESH KUMAR (COLLEGE OF ENGINEERING TRIVANDRUM - APJ Abdul Kalam Technological University)*; Dr. JAYAKUMAR P (COLLEGE OF ENGINEERING TRIVANDRUM - APJ Abdul Kalam Technological University)
150	OP2	TR02	Performance Comparison of Single and Cascade Loop Controllers in Quadratic Boost Converter	Sumukh Surya (Bosch)*
151	OP2	TR02	High-Gain Converter with Optimized Voltage and Current Stress	PREETI SHARMA (PDEU)*; Kaibalya Prasad Panda (PDEU); Rajneesh Kumar (BITS); Sara Hasanpour (Islamic Azad University Ramsar)
173	OP2	TR02	Design and Implementation of an Active Continuous Conduction Mode Boost Converter for Power Factor	Satyabrata Behera (National Institute of Technology, Rourkela)*; Yogesh Sharma (National Institute of Technology, Rourkela); Venkata Ramana Naik N (National Institute of Technology Warangal)
245	OP2	TR02	ZVS Analysis of an Interleaved Current-Fed DAB for Bipolar and Unipolar DC Grids	Lohith Pittala (University of Bologna)*; Edivan Laercio Carvalho (Tallinn University of Technology); Mattia Ricco (University of Bologna); Georgios Orfanoudakis (Hellenic Mediterranean University); Alon Kuperman (Ben Gurion University of the Negev); Riccardo Mandrioli (University of Bologna)
278	OP2	TR02	H-Bridge and T-Type Dominance in Quad Active Bridge Converter Performance: A Comparative Analysis	Ashish Gupta (Indian Institute of Technology Kanpur)*; Piyush Kant (Indian institute of Technology Kanpur); Sunil Kumar Dube (Lucid Motors Inc.)

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155	OP2	TR03	A Novel Modulation for Modified Single-Stage Single-Phase AC to DC TAB-based converter with parallel HF Compensation of Second Harmonic Power	Naresh Rana (Indian Institute of Science, Bengaluru)*; Kaushik Basu (Indian Institute of Science, Bengaluru)
184	OP2	TR03	A Novel Closed-Loop Resonant Frequency Tracking for Dynamic Wireless Power Transfer Using Inverter Phase Angle Computation	parameshwari M (National Institute of Technology,Trichy)*; Arjun Bharati Kumar (National Institute of Technology,Trichy); P.Srinivasa Rao Nayak (National Institute of Technology,Trichy)
232	OP2	TR03	New Segmented Inductive Coupler Structure with Capacitive Decoupling for Interoperable Dynamic Roadway Wireless Charging Applications	Ashwaini Goswami (Indian Institute of Technology Madras); Rakesh Pulletikurthi (Indian Institute of Technology Madras); Deepak Ronanki (Indian Institute of Technology Madras)*; Subbarao Pichuka (Indian Institute of Technology Madras)
281	OP2	TR03	Implementation of Average Current Control for Load Sharing in Paralleled LCLC Resonant Converters	Shankar T (Indian Institute of Technology Madras)*; Nagesha Chitpadi (Renesas Electronics India Pvt. Ltd); Lakshminarasamma N (Indian Institute of Technology Madras)
283	OP2	TR03	A Class E-based Power Factor Corrector Circuit with Reduced DC Bus Capacitor	Pabbisetty Hari Venkata Sai Kishore (IIT Mandi)*; Amit Kumar Singha (IIT Mandi)
285	OP2	TR03	Comprehensive Performance and Magnetic Analysis of 3.3kW Inductive Wireless Power Transfer System	Ummemisbah Bhisti (Ontario Tech University)*; Joel Adubofuor (Ontario Tech University); Sheldon Williamson (Ontario Tech University)
290	OP2	TR04	3.3 kW EV Charger Based on Fast switching DAB Topology: A Dual Phase Shift Approach	Avila PINTO (NITK)*; Kalpana R (NITK); Parthiban P (NITK)
296	OP2	TR04	An Efficient Bridgeless two-stage OBC using a totem-pole AC-DC converter for EV applications	SUPRABHA PADIYAR (MANIPAL INSTITUTE OF TECHNOLOGY,MANIPAL,UDUPI, KARNATAKA)*
301	OP2	TR04	Analysis of a Three-Leg LLC Multiport Resonant Converter for Dual Voltage Onboard EV Charger	Swathi G V (National Institute of Technology Karnataka); Dr Dharavath Kishan (NIT K)*; Vinusha Bussa (National Institute of Technology Karnataka)
342	OP2	TR04	AC-powered Dual-Active-Bridge (DAB) EV Charger with a Reduced-Current Stress Converter Using an Adaptive DC Link in Three-Phase system	RANJEET SAH (IIT BHILAI)*; SHASHANK KURM (IIT BHILAI); SHAILENDRA KUMAR (IIT BHILAI)
419	OP2	TR04	Operation of Wide-Range Universal V2G Charger in DC Microgrids	Hans Anniste (Tallinn University of Technology)*; Dmitri Dmitri (Tallinn University of Technology); Andrei Blinov (Tallinn University of Technology)
422	OP2	TR04	Renewable-Assisted DC-Bus-Fed DWPT System with Dual Transmitter and Dual Receiver for EV Charging Applications	JITHENDER TEKUMATLA (IIT Bhubaneswar); SHYAM NAVEEN KUMAR (IIT Bhubaneswar); Tummuru Narsa Reddy (IIT Bhubaneswar)*; Srinivas Bhaskar Karanki (IIT Bhubaneswar)
224	OP2	TR06	Discontinuous Space Vector PWM Strategies for Field-Oriented Control of Five-Phase Induction Motors with Reduced Switching Losses	JEEBAN NAYAK (IIT Patna)*; Ranjan Behera (IIT Patna)
244	OP2	TR06	A Compact 13-Level Step-Up Multilevel Inverter Employing Fuzzy Logic Switching Strategy	Eddu Karunakaran (NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA)*; Yellasiri Suresh (NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA)
298	OP2	TR06	Design of P+Notch DC Link Voltage Controllers for PFC Rectifiers Operating under Prescribed Phase Margin and THD Constraints	Yoav Aminov (Ben-Gurion University of The Negev); Alon Kuperman (Ben-Gurion University of The Negev)*
304	OP2	TR06	Selective Harmonic Self-Elimination with Curve Fitting Method for a Five-Level Single Phase Inverter with Fixed DC voltage	Sayantika Mukherjee (IIT ROPAR)*; Pratik Kalkal (IIT ROPAR); A.V. Ravi Teja (IIT ROPAR)

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305	OP2	TR06	Graphical Analysis for Finding Multiple Solution Points of Selective Harmonic Elimination in a Two-Level Inverter	Sayantika Mukherjee (IIT ROPAR)*; Pratik Kalkal (IIT ROPAR); A.V. Ravi Teja (IIT ROPAR)
344	OP2	TR06	Wave-shaper Based ANPC with Active Front-end Converter for Medium Voltage Variable Frequency Induction Motor Drives	SASWAT PANDA (INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR)*; Suman Maiti (INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR)
90	OP2	TR07	A Motor Control Position Tracker for SPV Battery Fed PMaSynRM With Regenerative Braking for LEV Applications	Sushant Kumar (Indian Institute of Technology, Bhilai)*; Dr. Shailendra Kumar (Indian Institute of Technology, Bhilai); Dr. Shashank Kurm (Indian Institute of Technology, Bhilai)
99	OP2	TR07	Performance Analysis of Pentacle Connected FPIM under Open Phase Fault for EV Applications	Jahera Shaik (Sardar Vallabhbhai National Institute of Technology)*; Chudamani R (Sardar Vallabhbhai National Institute of Technology); Seshadri Gopalan (Danfoss Drives); Chandani P Gor (Sardar Vallabhbhai National Institute of Technology)
128	OP2	TR07	Detection of Interturn Winding Faults in Single Phase Squirrel Cage Induction Motor by Stator Flux Monitoring System	Tushar Vilhekar (Visvesvaraya National Institute of Technology, Nagpur)*; Makarand Ballal (Visvesvaraya National Institute of Technology, Nagpur)
319	OP2	TR07	Four-Quadrant Control of CSI fed PMSM Drive for EV Applications with Improved Efficiency	Ashish Kumar (Indian Institute of Technology, Roorkee); Apurv Kumar Yadav (Indian Institute of Technology, Roorkee)*
384	OP2	TR07	Comparative Analysis of Multi-spoke Lightning Rod to conventional ESE and Franklin Rod	Alok Verma (IIT Kanpur)*; Ramanuj Deb (IIT Kanpur)
411	OP2	TR07	Optimised Flux Reference-Based Speed Range Extension Scheme for BFI-CFI Fed Direct-Torque Controlled PMSM Drives	Rajeevan PP (Indian Institute of Space Science and Technology)*; Roshan Jabeen K (Indian Institute of Space Science and Technology)
105	OP2	TR09	MMC-Based Grid-PV Integrated Electrolyser System for Green Hydrogen Production	Tanu Prasad (IIT Bhilai)*; Shashank Kurm (Indian Institute of Technology Bhilai); Shailendra Kumar (Indian Institute of Technology Bhilai)
231	OP2	TR09	Multipulse Rectifier Fed Reconfigurable Interleaved Buck Converter for Hydrogen Electrolysers	Anakapalli Vasu Deva (Indian Institute of Technology Madras); Deepak Ronanki (Indian Institute of Technology Madras)*
233	OP2	TR09	A New Transformer-Less Common Ground Micro Inverter for Single-Phase Load Applications	KOVVALI SRIMANNARAYANA (NIT AP)*; JAYARAM NAKKA (NIT AP); Arup Ratan Paul (IIT BOMBAY)
313	OP2	TR09	An Optimization Approach for Sustainable Transformer Design in Photovoltaic Power Plants	Emir Yükselen (Çankaya University); Ebrahim Rahimpour (THWS)*
314	OP2	TR09	Insights into JV and EQE performance metrics of solar cells	NILANJEEB DAS (INDIAN INSTITUTE OF TECHNOLOGY DHARWAD)*; PILIK BASUMATARY (INDIAN INSTITUTE OF TECHNOLOGY DHARWAD); ASHISH MALIK (INDIAN INSTITUTE OF TECHNOLOGY DHARWAD); SATYABRATA GURUPRASAD (INDIAN INSTITUTE OF TECHNOLOGY DHARWAD); DHRITI SUNDAR GHOSH (INDIAN INSTITUTE OF TECHNOLOGY DHARWAD)
425	OP2	TR09	A Novel Active Power Control for Wind Energy System for Improved Frequency Regulation	Md Hasnain Arifin (UNC Charlotte); Md Shamim Hasan (UNC Charlotte); Sukumar Kamalasadan (University of North Carolina at Charlotte)*; Andrew Crosby (Siemens Energy); Krishna Murari (IIT Bhilai)
87	OP2	TR11	Enhancing Power Handling using Cascaded Multilevel Inverter-Based SAPF with PI Controller	Rupa Boddapati (Osmania University)*
104	OP2	TR11	Super Twisting Sliding Mode Control based PV fed QZSI for Grid Tied Applications	Divya S (CUSAT)*

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# Paper ID	Session	SubTrack	Paper Title	Authors
152	OP2	TR11	Comparative Analysis of PLLs Under Frequency Variations in Electrified Aircraft Power Systems	Rama Naga Praneeth Suri (Collins Aerospace)*; Rushiraj Jani (Collins Aerospace); Rupan Sarkar (Collins Aerospace)
164	OP2	TR11	High-Performance FCS-MPC for a New Five-Level Voltage Source Inverter	Ali Azimi Bizaki (Lakehead University); Apparao Dekka (Lakehead University)*; Deepak Ronanki (Indian Institute of Technology Madras)
213	OP2	TR11	Indirect MPC with Adaptive DC-Link Voltage Control for a CHB-based Shunt Active Power Filter	Christopher Curtis (Lakehead University); Joseph Fourcaudot (Lakehead University); Saige Niemi (Lakehead University); Darian Smith (Lakehead University); Apparao Dekka (Lakehead University)*; Deepak Ronanki (Indian Institute of Technology Madras)
235	OP2	TR11	Generalized Model Predictive Control of Active Power Decoupling Circuits for Single-Phase Electric Vehicle Battery Chargers	Sri Sai Lahari Kommuri (Indian Institute of Technology Madras); Harish Karneddi (Indian Institute of Technology Madras); Preetha Philip (Indian Institute of Technology Madras); Deepak Ronanki (Indian Institute of Technology Madras)*
122	OP2	TR12	Stability Analysis of Smart Grids Under Dynamic Load-Altering Attacks	AnilKumar Badavath (Department of Electrical Engineering, Indian Institute of Technology Roorkee)*
131	OP2	TR12	Cyber Modelling of Advanced Metering Infrastructure using ns-3	Issa Mlimbila (IIT Roorkee); Amit Kumar (IIT Roorkee)*; Himanshu Jain (IIT Roorkee)
159	OP2	TR12	A Flexible and Robust Framework for Intrusion Detection in DER Cyber-Physical Security	Suresh Mogilicharla (Indian Institute of Technology Roorkee)*; Manoj Tripathy (Indian Institute of Technology Roorkee); Mital Kanabar (GE Grid Solutions)
294	OP2	TR12	Cyber-Physical Security Testbed for Wide Area Damping Control utilizing IEEE C37.118 Protocol: Assessing Denial-of-Service Attack Impact	ABHISHEK SAINI (IIT DHARWAD)*; Smruti Prava Dash (IIT DHARWAD); Abhishek Bhattacharyya (The University of Texas at Dallas Texas); Hussain M. Mustafa (Lane Department of CS and EE West Virginia University); Pratyasa Bhui (IIT DHARWAD); Anurag K Srivastava (Lane Department of CS and EE West Virginia University)
308	OP2	TR12	A New Hybrid Model-Driven Machine Learning Approach for Cyber Attack Detection in Autonomous E-Mobility Systems	Praneeth Reddy Pesala (Indian Institute of Technology Madras); Durga Prasad Pilli (Indian Institute of Technology Madras); Deepak Ronanki (Indian Institute of Technology Madras)*; Apparao Dekka (Lakehead University)
424	OP2	TR12	Impact of BESS Placement on Fault Current Contribution in Bulk Power Systems	Md Shamim Hasan (UNC Charlotte); Md Hasnain Arifin (UNC Charlotte); Sukumar Kamalasadan (University of North Carolina at Charlotte)*; Michael Smith (UNC Charlotte); Andrew Crosby (Siemens Energy); Krishna Murari (IIT Bhilai)
106	OP2	TR13	Dynamic performance analysis of BESS in grid disturbance scenarios	SOMA SEKHAR POLA (cpri)*
200	OP2	TR13	A Study of Cybersecurity and Resilience of Dual Active Bridge Converters in Electric Vehicle Fast Charging Systems	V S R Varaprasad Oruganti (Ontario Tech University)*; Kushan Tharuka Lulbadda (Ontario Tech University); Tarlochan Sidhu (Ontario Tech University); Sheldon Williamson (Ontario Tech University)
252	OP2	TR13	Modal Analysis of Offshore Wind Farms Integrated via Hybrid HVDC–MVDC Transmission Systems	Priya Singh (Victoria University of Wellington)*; Ramesh Rayudu (Victoria University of Wellington); Praveen Kumar (Oak Ridge National Laboratory)
263	OP2	TR13	Single Loop dq control scheme based islanded distributed micro-grid system	Vaishnavvignesh G Iyer (IIT Guwahati)*; Cilaveni Satish Chandra (IIT Guwahati); Ravindranath Adda (IIT Guwahati); Sreenath J G (IIT Guwahati); Praveen Tripathy (IIT Guwahati)
269	OP2	TR13	Decentralized Virtual Inertia-Damping with Supervisory Secondary Control for DC Microgrids	Abualkasim Bakeer (Tallinn University of Technology); Andrii Chub (Tallinn University of Technology)*

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271	OP2	TR13	Adaptive Damping Control for Mitigating Sub-Synchronous Resonance in Wind Energy Systems Under Variable Operating Conditions	Jawaharlal Bhukya (VNIT)*; Rishav Dutta (Visvesvaraya National Institute of Technology (VNIT))
40	OP3	TR02	Square-Wave-Fed Hybrid Symmetrical Cockcroft-Walton Voltage Multiplier for High-Voltage DC Power Supplies	Sara Baldisserri (University of Bologna); riccardo mandrioli (University of Bologna)*; Lohith Kumar Pittala (Universita di Bologna); Gabriele Neretti (University of Bologna); Vincenzo Cirimele (University of Bologna); Mattia Ricco (University of Bologna); Andrea Cristofolini (University of Bologna)
289	OP3	TR02	Active Voltage Balancing Strategy for a Three-Level Flying Capacitor Boost Converter	Cilaveni Satish Chandra (IIT Guwahati)*; Vaishnavvignesh G Iyer (IIT Guwahati); Ravindranath Adda (IIT Guwahati); Praveen Tripathy (IIT Guwahati); Sreenath J G (IIT Guwahati)
293	OP3	TR02	A 1.5 µW Quiescent Power, 85% Peak Efficiency, Digitally Controlled Energy Subsystem for Powering the IoT Node	Siddhant Nagar (IIT Dharwad)*; Saroj Mondal (IIT Dharwad)
320	OP3	TR02	An Active Current Source Gate Driver-Based Voltage Balancing of Series-Connected Devices	Siddhartha Suyal (Indian Institute of Technology, Roorkee); Apurv Kumar Yadav (Indian Institute of Technology, Roorkee)*
389	OP3	TR02	Z-Source Inverter With a Floating Capacitor Cascade for Enhanced Performance and Single Supply Operation	Remya K P (Govt. Engineering College,Thrissur, India affilaited to APJ Abdul Kalam Technological University)*; Dr Jaison Mathew (GEC Thrissur); Vasuda K V (Government Engineering College Thrissur)
403	OP3	TR02	A Reconfigurable Series / Parallel IGBT-Based DC Solid-State Circuit Breaker	Prasanth Pithanisetty (Indian Institute of Technology Dharwad); Daniel Dsa (Indian Institute of Technology Dharwad)*; Moein Ghadrdan (Institute for Technical Physics, Karlsruhe Institute of Technology); Satish Naik Banavath (Indian Institute of Technology Dharwad); Giovanni De Carne (Institute for Technical Physics, Karlsruhe Institute of Technology); Edivan Laercio Carvalho (Tallinn University of Technology)
404	OP3	TR02	Current Stress Minimization of DAB using Particle Swarm Optimization	Rajarshi Saha (IIT Guwahati)*; Shabari Nath (IIT Guwahati)
406	OP3	TR02	Active SoC Equalization for Multi-Module Li-ion Battery Packs Using Bidirectional Flyback and Buck-Boost Converters	Kiran Sai Dasari (Indian Institute of Science, Bangalore)*; Subba Reddy Bassapa (Indian Institute of Science, Bangalore); Subba Rao Mopidevi (Vignan's Foundation for Science Technology and Research, Guntur)
408	OP3	TR02	Comparative Study on Thermal Aspects of Boost and Quadratic Boost Converter Using PLECS	Sumukh Surya (Bosch); Gopal Krishna (NITK)*; Venkatesha Perumal (NITK)
421	OP3	TR02	Modeling and Control of a Five-Port DC-DC Converter for Integrating Renewable Energy Sources	Ravi Ranjan (IIT Bhubaneswar); Pragya Nand Singh (IIT Bhubaneswar); Srinivas Karanki (IIT Bhubaneswar)*
423	OP3	TR02	Constant Output Power LED Driver for Line Voltage Variation with High Power Factor	Manjunath Hegde (IIT Dharwad)*; Aditi Sardesai (IIT Dharwad); Nagaveni S (IIT Dharwad)
435	OP3	TR02	Development and Realization of a Compact, Rugged and Highly Efficient Power Supply Unit for non-linear Pulsating Loads in High Power Radar applications	NANDAKUMAR S (DRDO)*; Aabir S Wani (DRDO); Dr Vijay Hiralal Bhosale (DRDO); Suchith Rajagopal (DRDO)
177	OP3	TR04	Moving Discretized Control Set Model Predictive Control of Single-Stage GaN-Based Onboard Electric Vehicle Battery Charger	Rajasekhar Attada (IIT Madras); Deepak Ronanki (Indian Institute of Technology Madras)*; Rajesh Sura (Dynolt Technologies Private Limited)

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179	OP3	TR04	A Multifunctional LLC Resonant-Tank Based Topology for Compact and Efficient Integration of OBC and APM Architectures in Electric Vehicles	Tarun Panwar (Indian Institute of Technology, Mandi)*; Ashutosh Rai (Indian Institute of Technology, Mandi); Venkata Ratnam Vakacharla (Indian Institute of Technology, Mandi)
180	OP3	TR04	Current-Fed Converter based CLC Compensated Parallel Transmitters for Inductive Wireless Charging of Multiple Electric Vehicles	Rajat Kumar (IIT Mandi)*; Abhishek Singhal (IIT Mandi); Venkata Ratanam Vakacharla (IIT Mandi)
183	OP3	TR04	SiC Device Based Four Phase Interleaved Bidirectional DC-DC Converter Control with Wide Voltage Range Operation for EV Drive Validation	Murali Manohar S R (CDAC)*; Arun Raj Kumar K P (CDAC); Sreedevi M L (CDAC); Jinuraj K G (CDAC); Renji V Chacko (CDAC)
253	OP3	TR04	A Seven Level Inverter Topology with Reduced Switch Count for Electric Vehicle Applications	Hari Krishna Bhukya (National Institute of Technology Karnataka); Dr Dharavath Kishan (NIT K)*; UdayKumar R Yaragatti (National Institute of Technology Karnataka)
262	OP3	TR04	Design of an Optimized Two-Leg DC–DC Dual-Mode Converter for Wireless EV Charging	Lalitha Pai B (National Institute of Technology Karnataka); Dr Dharavath Kishan (NIT K)*; Kalpana R (National Institute of Technology Karnataka)
111	OP3	TR05	A Comprehensive Review of the Battery Thermal Management Systems for Fast-Charging of Lithium-ion Batteries	Chandan Chetri (Ontario Tech University)*; Alvin Huynh (Ontario Tech University); Latha Anekal (Ontario Tech University); Sheldon Williamson (Ontario Tech University)
119	OP3	TR05	Hybrid Cell Balancing of Lithium-Ion Batteries Using Multi-Inductor Active Topology Combined with Passive Dissipation Control	dheeraj gurijala (student)*
182	OP3	TR05	A Study of di/dt Effect on Spacecraft Li-ion Battery	Ananda S (U R Rao Satellite Centre)*; Yerrabothala Ram Kishore (U R Rao Satellite Centre); Jyostnarani Mahanta (U R Rao Satellite Centre); Sushma H R (U R Rao Satellite Centre); Debasmiti Mishra (U R Rao Satellite Centre); Pradeep K Peter (U R Rao Satellite Centre); Neelavathy M (U R Rao Satellite Centre)
186	OP3	TR05	Impact of Faulty Cell Position on Terminal Voltage Characteristics in Li-Ion Battery Packs	TWINKLE PATTNAIK (VNIT, Nagpur)*; Devang P. Kubitkar (VNIT, Nagpur); Ragiree Shusmashalini (VNIT, Nagpur); Makarand S. Ballal (VNIT, Nagpur)
261	OP3	TR05	Performance Evaluation of Passive Cell Balancing Topologies for Parallel-Connected Lithium-Ion Battery Packs Using Minimum SoC Strategy	Kiran Sai Dasari (Indian Institute of Science, Bangalore)*; Shreyansh Kulshrestha (Institute of Technology, Nirma University); Bhavesh Rameshbhai Vagh (Indian Institute of Science, Bangalore); Ritk Bind (Madan Mohan Malaviya University of Technology); Subba Reddy Basappa (Indian Institute of Science, Bangalore)
359	OP3	TR05	A Single Stage Battery Balancing and Power Transfer using M2L2M Configuration via Integrated DC-DC Topology for Electric Vehicles	Namrata Narayan (Indian Institute of Technology, Mandi)*; Parmar Pratikkumar (Indian Institute of Technology, Mandi); Moumita Das (Indian Institute of Technology, Mandi)
178	OP3	TR07	An Improved ASMO-Based Sensorless Control Strategy for PMSM Using Grey Wolf Optimization	Jinlun Liu (Xi'an Jiaotong-Liverpool University); Mianzhi Wu (University of Pennsylvania)*; Zirui Zhuang (Xi'an Jiaotong-Liverpool University); Hanyu Zhang (Xi'an Jiaotong-Liverpool University)
193	OP3	TR07	Regenerative Braking in Open Ended Induction Machine for EV Applications	Arindam Paul (NIT AGARTALA); Moumita Paul (NIT AGARTALA); Diptanu Majumder (NIT AGARTALA); Prabir Kasari (NIT AGARTALA); Bikram Das (NIT Agartala)*; Anindita Jamatia (NIT AGARTALA); Soham Chakraborty (IISc Bangalore); ABANISHWAR CHAKRABARTI (NIT AGARTALA); Sujit K. Biswas (St. Thomas College of Engg. & Tech.)

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275	OP3	TR07	Design and Analysis of Push-Pull Converter for Microsatellite and PMDC Motor Drive Systems	VANDANA V (Government Engineering college Sreekrishnapuram, Palakkad.)*; Vinita Chellappan (Government Engineering College Palakkad)
324	OP3	TR07	Performance Analysis of Shaft Voltage in 3L-NPC fed Induction Motor using LS-PWM and PS-PWM with a Carbon brush	Asad Hussain (Indian Institute of Technology, Roorkee)*; Jyoti Ranjan Dash (Indian Institute of Technology, Roorkee); Rohit Raj (Indian Institute of Technology, Roorkee); Pramod Agarwal (Indian Institute of Technology, Roorkee)
325	OP3	TR07	Recuperation and Reuse of Regenerative Braking Energy in EOT Cranes	Rakesh Jha (Aartech Solonics Ltd. Bhopal)*
348	OP3	TR07	Split Core CT Based Energy Harvester for Powering Transmission Line Inspection Robots	Souvik Das (Indian Institute Of Technology Dharwad)*; Abhijit Kshirsagar (Indian Institute of Technology Dharwad); Pratyasa Bhui (Indian Institute of Technology Dharwad)
165	OP3	TR08	Machine Learning-Based Prediction of Load Current THD in SVPWM Inverters: A Comparative Study	Aswathy G (COLLEGE OF ENGINEERING TRIVANDRUM(APJ Abdul Kalam Technological University))*; Dr. Reshmi S Bhooshan (College of Engineering Trivandrum (APJ Abdul Kalam Technological University)); Dr. Vinod B R (Government College of Engineering, Kannur (APJ Abdul Kalam Technological University))
188	OP3	TR08	Residual-Aware Reinforcement Learning with Bayesian Transformer for Probabilistic Anomaly Detection in PV Systems	Apoorva Choumal (Delhi Technological University)*
215	OP3	TR08	Levenberg–Marquardt Trained Neural Network Based Fault Current Limitation in Synchronverter	Lipun Naik (Indian institute of technology dharwad)*; Animesh Sahoo (Indian institute of technology dharwad); Mayukha Pal (ABB Ability Innovation Center, Asea Brown Boveri Company, Hyderabad)
237	OP3	TR08	Modified Mantis Shrimp Optimization-Based Global MPPT for Photovoltaic Systems under Partial Shading Conditions	Nisha Poothullil (Government Engineering College Thrissur)*; Abdul Saleem (Government Engineering College Thrissur)
351	OP3	TR08	Fusion-Based Approach For Accurate SoH Estimation of Lithium-Ion Batteries: A Review	AMITAVA DUTTA (Volvo India Ltd.)*; Makarand S Ballal (Visvesvaraya National Institute of Technology)
360	OP3	TR08	Optimal Demand Side Management using Multi-Objective Particle Swarm Optimization	Rachita R. Sarangi (OUTR, Bhubaneswar); Jyoti R. Sahu (TPSODL Berhampur); Prakash K. Ray (OUTR Bhubaneswar)*; Asit Mohanty (OUTR BHUBANESWAR); Soumya R. Mohanty (IIT BHU); Nand Kishor (Østfold University College)
192	OP3	TR10	A Novel Dual-Field Modulated Generator Using Dual Halbach Arrays for Wind Energy Applications	Neel Shrivastava (IIT Goa`)*; Sashidhar Sampathirao (IIT Goa); Bidyadhar Subudhi (IIT Goa)
112	OP3	TR10	Design of High-Speed Outer Rotor Permanent Magnet Synchronous Motor (PMSM) for Blower Application with Novel Asymmetrical Stator Structure	ATHIRA VENUGOPAL (VSSC)*; SHINOY K.S (VSSC); BABY SEBASTIAN (VSSC)
129	OP3	TR10	Digital Twin Approach for the Stator Winding Interturn fault Detection of Alternator	Makarand Ballal (Visvesvaraya National Institute of Technology, Nagpur)*; Bhimrao Umare (Visvesvaraya National Institute of Technology, Nagpur); Hiralal Suryawanshi (Visvesvaraya National Institute of Technology, Nagpur); Rashmi Singh (Visvesvaraya National Institute of Technology, Nagpur); Tushar Vilhekar (Visvesvaraya National Institute of Technology, Nagpur); Kanchan Ghule (Visvesvaraya National Institute of Technology, Nagpur)

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187	OP3	TR10	A Boundary-Based Numerical Method to Calculate Inductance Matrix for Non-Circular Planar Spiral Winding	Parvathy Saji (National Institute of Technology Calicut)*; Muhammed Nashrah K (National Institute of Technology Calicut); Ashiq Muhammed PE (National Institute of Technology Calicut)
350	OP3	TR10	Correlation between apparently dissimilar inductor geometries through Geometric Inversion: An approach using Mathematical Topology	Gourab Banerjee (IIEST Shibpur)*; Mainak Sengupta (IIEST Shibpur)
409	OP3	TR10	A Comparative Study of Flux-Reversal and Flux-Switching Permanent Magnet Machines	Shivendra Singh (Indian Institute of Technology Dharwad); Aravind G (Indian Institute of Technology Dharwad); Amarkumar Kushwaha (Indian Institute of Technology Dharwad)*
236	OP3	TR11	Model Predictive Control of Small-Scale Electrified Hydrogen Electrolyzer Systems	Jairam Kinjarapu (Indian Institute of Technology Madras); Deepak Ronanki (Indian Institute of Technology Madras)*; Rajesh Sura (Indian Institute of Technology Madras)
243	OP3	TR11	Research on Optimizing Controller Configuration for CRAFT Power Supply System Based on Particle Swarm Optimization and BP Neural Networks in Nuclear Fusion	Ling Zhang (Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences)*
264	OP3	TR11	Single-Loop Output Power Control Strategy for Standalone Single-Phase Inverters in Dynamic Load Applications	Akshat Saini (IIT Madras)*; Ajit Kumar Upadhiya (IIT Madras); Lakshminarasamma N (IIT Madras)
288	OP3	TR11	An Enhanced Multi Complex Coefficient Filter based Control for a Grid Connected Solar Energy Conversion System	Dr. NIRMAL MUKUNDAN (Khalifa University)*; Ahmed Al Durra (Khalifa University); Mohamed El Moursi (Khalifa University); Tarek El Fouly (Khalifa University)
356	OP3	TR11	State Estimation and Validation of Nonlinear System Dynamics of a SPV Array Integration with Different BESS using Error Metrics	Annavarapu Ankamma Naidu (Indian Institute of Technology Roorkee)*
437	OP3	TR11	DPS-Based Control Strategy of DAB Converter with Reduced-Order Modelling for Off-board EV Charging Applications	Shashi kumar Kondoju (VNIT Nagpur)*; Pradyumn Chaturvedi (VNIT Nagpur); Aman Sheikh (VNIT Nagpur)
277	OP3	TR12	Coordination of RT-DFIG-DC based WECS to Interconnect a DC Microgrid and an AC Grid	SOHAM CHAKRABORTY (NETAJI SUBHASH ENGINEERING COLLEGE)*; Abanishwar Chakrabarti (NIT Agartala); Dipten Maiti (Jadavpur University); Sujit Biswas (St. Thomas College of Engineering and Technology)
328	OP3	TR12	Multi-Objective Optimization Study of Hybrid Renewable Energy System	GUNDA SAI CHARAN RAJ (VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY)*; P S KULKARNI (VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY)
428	OP3	TR12	A Coordinated DC Protection Strategy Based on Prioritized DC-link Capacitor Fault Interruption	Moein Ghadrdan (Karlsruhe Institute of Technology)*; Satish Naik Banavath (Indian Institute of Technology Dharwad); Giovanni De Carne (Karlsruhe Institute of Technology)
432	OP3	TR12	MPC-Enabled DAB Converter Control to Reduce LVdc Ripple in SST-Based Microgrid	Somnath Meikap (IIT Guwahati)*; Hitesh Malviya (IIT Guwahati); Sahil Gaurav (IIT Guwahati); Chandan Kumar (IIT Guwahati)
433	OP3	TR12	Series Arc and Hotspot Detection in Power Distribution Box for Industrial Loads	Kuldeep Shivran (Indian Institute of Science)*; Sarasij Das (Indian Institute of Science)

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436	OP3	TR12	Study on Effects of Voltage Harmonics of Electric Propulsion based Ship Power System on Long Range Radar Power System	BHAGAM GURUVULU (LRDE, DRDO)*; Dr Vijay Hiralal Bhosale (LRDE, DRDO); Suchith Rajagopal (LRDE, DRDO); M Sheik Althaf (LRDE, DRDO)
171	OP3	TR13	Elastic Synergy: A Hybrid Price–Incentive Framework for Peak-Shaving and Utility Profit Optimization in Residential Demand Response	Rahul Goswami (Jadavpur University); Dr Ranjit Roy (SRM University Delhi-NCR Sonepat)*; Kamal Krishna Mandal (Jadavpur University)
197	OP3	TR13	Least-cost generation expansion modeling for Karnataka for FY 2031–32	Shristy Srivastava (CSTEP); Ammu Jacob (CSTEP)*
257	OP3	TR13	Optimization and Techno-economic Assessment of Hydrogen-Electrolyzer-Fuel Cell Hybrid Grid Connected EV Charging Stations With Different Dynamic Loads and Control Techniques	Md. Nimul Hasan (Department of Electrical, Electronic and Communication Engineering, Pabna University of Science and Technology, Pabna, Bangladesh) <nimul34.din.h@gmail.com> Md. Fatin Ishraque (Electrical Engineering Department, College of Engineering, Laval University, Quebec, Canada) <fatineeeruet@gmail.com> SK. A. Shezan (Murdoch University, Perth, Australia) <shezan.ict@gmail.com> Nuvvua S S Ramakrishna (NITTE (Demeed to be university) NMAMIT Department of Electrical and Electronics, India) <ramakrishna.n@nitte.edu.in> Anantha Krishna Kamath (Department of Computer Science and Design, Canara Engineering College, Sudheendra Nagar, Benjanapadavu, Mangalore) <akkamath1891@gmail.com>
267	OP3	TR13	Optimal Placement of Electric Vehicle Charging Station Using Machine Learning and Optimization Techniques	GANESH MATTAPARTHI (NIT TIRUCHIRAPPALLI)*
302	OP3	TR13	Seamless Integration of Passive Islanding Detection and Low Voltage Ride-Through in Synchronverter-Based Grid-Forming Inverters	Lipun Naik (Indian institute of technology dharwad)*; Animesh Sahoo (Indian institute of technology dharwad); Sanjib Panda (National University of Singapore)
321	OP3	TR13	Integration of Battery Energy Storage System into Secondary Reserve Anciliary Services: Insights from Delhi's Kilokri BESS Testing	Adarsh Nagarajan (BSES Rajdhani Power Limited)*; Avinash Kumar (BSES Rajdhani Power Limited); Murthi Thandavarayan (BSES Rajdhani Power Limited); Abhishek Ranjan (BSES Rajdhani Power Limited)