**9th National Power Electronics Conference (NPEC 2019)**

***DAY – 2 // 14.12.2019 : Session I* (09:45 am to 11:00 am)**

**TRACK-1: Drives and Control**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570572901 | Design, Fabrication and Testing of a Fractional-Slot Non-Overlapping Winding Permanent Magnet Synchronous Generator | Tutan Debnath and Sourabh Paitandi (Indian Institute of Engineering Science and Technology, Shibpur, India); Pinaki Mukherjee (Indian Institute of Engineering, Science & Technology, Shibpur, India); Mainak Sengupta (Indian Institute of Engineering Science and Technology, Shibpur, India) |
| 2 | 1570573276 | Analysis of Mutual Inductance Between Rectangular Structured Wireless Coupled Coils with Different Misalignments Using Finite Element Modeling | G Peddanna (National Institute of Technology, India); Srinivasrao Nayak (National Institute of Technology-Trichy, India); Manikandan T (National Institute of Technology, Tiruchirappalli, India); Damalla Ekalavya (National Institute of Technology, India); Shisaj P Simon (India) |
| 3 | 1570573418 | Real Time Simulation of a Switched Reluctance Motor on a Miniature Full Spectrum Simulator | Saptarshi Dey, Devraj Roy and Mainak Sengupta (Indian Institute of Engineering Science and Technology, Shibpur, India) |
| 4 | 1570574718 | An Optimal Model for Electric Vehicle Battery Charging and Discharging Scheduling Strategy | Sowmya R and Velupillai Sankaranarayanan (National Institute of Technology, Tiruchirappalli, India) |
| 5 | 1570580721 | Carrier Based Hybrid Modulation Scheme for Dual Inverter Fed Induction Motor Drive with Reduced Switching Loss | Greeshma Nadh, Durga Nair S and Arun Rahul (Indian Institute of Technology Palakkad, India) |

***DAY – 2 // 14.12.2019 : Session I* (09:45 am to 11:00 am)**

**TRACK-2: Renewable Energy Systems**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** | |
| 1 | 1570563511 | A Novel SEPIC-Ćuk Based High Gain Solar Micro-Inverter for Integration to Grid | Arup Ratan Paul, Arghyadip Bhattacharya and Kishore Chatterjee (IIT Bombay, India) | |
| 2 | 1570563813 | LVDC Architecture for Energy Efficient House Boat Hotel Load System | Mohammed Ajlif A and Sigi C Joseph (CDAC, India); Renji Chacko (Power Electronics Group, India); Aby J (CDAC, India); Jayan P P (CDAC, Trivandrum, India); Dhanesh P Raghavan (Centre for Development of Advanced Computing, Govt. of India & CDAC, India) | |
| 3 | 1570563844 | Energy Yield of Tracking Type Floating Solar PV Plant | Swati S Gurfude (Student of vnit Nagpur, India); P S Kulkarni (Vnit Nagpur, India) | |
| 4 | 1570587045 | DSOGI-PLL Based Solar Grid Interfaced System for Alleviating Power Quality Problems | | Abhishek Ranjan (Indian Institute of Techonology Delhi, India); Seema Kewat (IIT DELHI, NEW DELHI, India); Bhim Singh (IIT Delhi, India) | |
| 5 | 1570570966 | Optimal Scheduling of Microsources in Multi-Microgrids for Reliability Improvement | Chandrasekhar Yammani (National Institute of Technology, Warangal, India); C Srinivasarathnam (National Institute of Technology Warangal, India); Sydulu Maheswarapu (NIT Warangal, India) | |

***DAY – 2 // 14.12.2019 : Session I* (09:45 am to 11:00 am)**

**TRACK-3: Power Flow Control**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570549113 | A Robust Control Scheme for an Integrated Nine-Switch Power Quality Conditioner | Nalla Lokesh (Indian Institute of Technology Madras, India); Mahesh Kumar Mishra (I.I.T. Madras, India) |
| 2 | 1570564187 | Deadbeat Power Control of Modular Multilevel Converter in Synchronous Reference Frame | Debdeep Samajdar (Indian Institute of Technology, Kharagpur, India); Tanmoy Bhattacharya (IIT Kharagpur, India) |
| 3 | 1570566274 | Optimal Power Flow Controller for a Hybrid Renewable Energy System Using Particle Swarm Optimization | Suchetha C (Amrita Viswa Vidyapeetham, India); J. Ramprabhakar (Amrita Viswa Vidyapeetham) |
| 4 | 1570572702 | Fuzzy Adaptive Relay Settings for Distribution Network with DG | Anudevi S (Goa College of Engineering & Goa University, India); Vinayak Narayan Shet (Goa College of Engineering, India) |

***DAY – 2 // 14.12.2019 : Session I* (09:45 am to 11:00 am)**

**TRACK-4(A) : Power Converter Topologies, Components and Devices**

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| --- | --- | --- | --- |
| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570560503 | Switched Capacitor Based Boost Multilevel Inverters: Design Criterion and Limitations | Satish R (Indian Institute of Technology Madras, India); Lakshmi Narasamma (IIT Madras, India); Mahesh Kumar Mishra (I.I.T. Madras, India) |
| 2 | 1570563105 | A Survey of Wireless Power Transfer Methods for Artificial Retina | Rosaline Kavitha (National Institute Of Technology, India); Malar Kodi (National Institute Of Technology, Tiruchirappalli, India) |
| 3 | 1570563698 | A Comparison of Converter Topologies and Current Control Strategies for Real-time Load Emulators | Vijay A Subramony (IIT BOMBAY, India); Mukul Chandorkar (Indian Institute of Technology-Bombay, India); Suryanarayana Doolla (Indian Institute of Technology Bombay, India) |
| 4 | 1570563849 | Design of T-NPC Inverter Based Power Supply for High Voltage Transformer-Rectifier Unit of DC Particle Accelerators | Aritra Chakraborty, Saurabh Kumar, Ashok Mankani, Urmil Thaker and Amal S (Institute For Plasma Research, Gandhinagar, India); Paul Christian (INSTITUTE FOR PLASMA RESEARCH & KADI SARVA VISHWA VIDYALAYA, India) |
| 5 | 1570565925 | Experimental Validation of a Transformer-less Inverter with Improved Gain for Grid-PV Interface | Omkar Patkar (Fr. C. Rodrigues Instittue of Technology, India); Mini Rajeev (Fr. C. Rodrigues Institute of Technology, India) |

***DAY – 2 // 14.12.2019 : Session I* (09:45 am to 11:00 am)**

**TRACK-4(B) : Power Converter Topologies, Components and Devices**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570570209 | An Efficient Selective Harmonic Based Full Bridge DC-DC Converter for LED Lighting Applications | Kasireddy Idamakanti (Vaagdevi College of Engineering, India); Kasi Ramakrishnareddy Ch (Vaagdevi College of Engineering, Warangal, India) |
| 2 | 1570572951 | Design, Analysis, Fabrication and Testing of a 30 W, 300 kHz, Closed-Loop ZCS Buck Converter in Voltage-Mode Control | Kousik Ghosh (Indian Institute of Engineering Science and Technology, Shibpur, India); Abhishek Kar (Indian Institute of Engineering, Science & Technology, Shibpur, India); Mainak Sengupta and Bhaskaran Barman (Indian Institute of Engineering Science and Technology, Shibpur, India) |
| 3 | 1570573595 | Unaffected Dynamic Performance of Coupled SIDO Converters Due to Phase Shift | Gayatri Nayak and Shabari Nath (IIT Guwahati, India) |
| 4 | 1570573633 | Analysis and Control of Integrated Dual-Boost Topology for Solar-Battery Integration | Debjit Rana and Olive Ray (Indian Institute of Technology Bhubaneswar, India) |
| 5 | 1570573959 | Double Frequency Pulse Width Modulation for Type-1 Common-ground Transformerless Inverter | Lakshmi Sreekumar and Sreeraj ES (National Institute of Technology Goa, India) |

***DAY – 2 // 14.12.2019 : Session II* (04:00 pm to 05:30 pm)**

**TRACK-1: Drives and Control**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570574773 | Optimal Coordinated Charging Strategy for Electric Vehicles at Geographically Distributed Charging Stations | Vishvajit Sudhakar Kadam, Sowmya R and Velupillai Sankaranarayanan (National Institute of Technology, Tiruchirappalli, India) |
| 2 | 1570581822 | Reconfiguration Based Single Stage PV WaterPumping System | Harish Kumar Varma Gadiraju (NIT GOA, India); Barry Venugopal Reddy (National Institute of Technology Goa, India); Rohit Kumar Jain (NIT GOA, India) |
| 3 | 1570582123 | Post-Fault Operation of Fault-Tolerant Three Phase Surface Mounted PMSM | Naveen Deepak Veeramaneni (IIT Gandhinagar, India); Ragavan Kanagaraj (Indian Institute of Technology Gandhinagar, India) |
| 4 | 1570582284 | High Torque/Ampere Direct Torque Control of Switched Reluctance Motor Drives | Vaibhav Shah, Mahetab Alam and Saifullah Payami (IIT RPR, India) |
| 5 | 1570582615 | Effect of Magnets and Diamagnetic Material on Performance of SynRM with Novel Rotor Structure | Sriram Bhardwaj Aryasomayajula and Rajdeep Banerjee (Indian Institute of Technology, Kanpur, India); P Sen Sarma (IIT Kanpur, India) |

***DAY – 2 // 14.12.2019 : Session II* (04:00 pm to 05:30 pm)**

**TRACK-2: Renewable Energy Systems**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570586003 | FZA-APNCA Control Strategy for WG/HG/PV Based Microgrid at Unbalanced Nonlinear Loads | Rohini Sharma (IIT DELHI, India); Seema Kewat (IIT DELHI, NEW DELHI, India); Bhim Singh (IIT Delhi, India); Ambrish Chandra (Ecola de Technologie, Superieure, Canada); Kamal Al-Haddad (Ecole de technologie supérieure, Canada) |
| 2 | 1570572387 | On Numerical Integration Techniques and Time Step Selection for Real-time Emulation – Case Study of Microgrid System Emulation | Vijay A Subramony (IIT BOMBAY, India); Mukul Chandorkar (Indian Institute of Technology-Bombay, India); Suryanarayana Doolla (Indian Institute of Technology Bombay, India) |
| 3 | 1570586972 | Artificial Neural Network Based Advanced Current Control for Grid-Tied Photovoltaic System | Sudip Bhattacharyya (Indian Institute of Technology Delhi, India); Bhim Singh (Indian Institute of Technolgy, Delhi, India); Ambrish Chandra (Ecola de Technologie, Superieure, Canada); Kamal Al-Haddad (Ecole de technologie supérieure, Canada) |
| 4 | 1570574554 | Implementation of Multilevel Battery Charging Scheme for Lithium-ion Batteries | Mihir Vijaykumar Gaglani (National Institute of Technology Goa, India); Rashmi Rai and Soumitra Das (National Institute of Technology, Goa, India) |
| 5 | 1570573942 | Architecture and Power Converter for Multifrequency Microgrid | Rajdip Dey (IIT GUWAHATI, India); Shabari Nath (IIT Guwahati, India) |
| 6 | 1570574289 | Frequency Control of Autonomous Hybrid Multi-microgrid System | C Srinivasarathnam (National Institute of Technology Warangal, India); Chandrasekhar Yammani (National Institute of Technology, Warangal, India); Sydulu Maheswarapu (NIT Warangal, India) |

***DAY – 2 // 14.12.2019 : Session II* (04:00 pm to 05:30 pm)**

**TRACK-4(A) : Power Converter Topologies, Components and Devices**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570574102 | Design and Analysis of High Gain Buck-Boost Converter Topology with Reduced Voltage Stress | Ashok Bhupathi Kumar Mukkapati (Indian Institute of Information Technology Design and Manufacturing Kancheepuram, India); Vijayakumar Krishnasamy (Indian Institute of Information Technology Design & Manufacturing Kancheepuram, India) |
| 2 | 1570574242 | FPGA Accelerator for Real-Time Emulation of Power Electronic Systems Using Multiport Decomposition | Mini K Namboothiripad and Mandar J Datar (Indian Institute of Technology Bombay, India); Mukul Chandorkar (Indian Institute of Technology-Bombay, India); Sachin Patkar (Indian Institute of Technology, Bombay, India) |
| 3 | 1570574259 | Analysis of Transformerless MMC and Suppression of Third Order Harmonic Current | Ankit Yadav (IITKanpur & IIT KANPUR, India); S n Singh (IIT Kanpur, India); Shyama Das (Indian Institute of Technology Kanpur, India) |
| 4 | 1570574277 | Single Phase Reduced Switch Multilevel Inverter with Half Height Switching | Pratik Kumar Kar (IIT Bhubaneswar, India); Anurag Priyadarshi (Indian Institute of Technology Bhubaneswar, India); Srinivas Bhaskar Karanki (IIT Bhubaneswar, India) |
| 5 | 1570574296 | Combination of Proportional Resonant and Hysteresis Controller with WFC for Single Stage Dual Boost Grid Connected Inverter | Pratik Kumar Kar (IIT Bhubaneswar, India); Anurag Priyadarshi (Indian Institute of Technology Bhubaneswar, India); Srinivas Bhaskar Karanki and Mrinal Mohapatra (IIT Bhubaneswar, India) |
| 6 | 1570574300 | A Grid Integrated Bi-Directional Dual Active Bridge Converter with Model Reference Adaptive Control Based Power Flow Controller | Sanjib Kumar Mitra and Srinivas Bhaskar Karanki (IIT Bhubaneswar, India) |

***DAY – 2 // 14.12.2019 : Session II* (04:00 pm to 05:30 pm)**

**TRACK-4(B) : Power Converter Topologies, Components and Devices**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570574315 | Design, Fabrication and Experimental Investigations of Voltage Source Inverter Fed Induction Heating Prototype | Bhaskaran Barman and Mainak Sengupta (Indian Institute of Engineering Science and Technology, Shibpur, India) |
| 2 | 1570574359 | Input Regulated Soft Switched Ripple Free Current LED Driver | Chandra Sekhar Valluru (NIT WARANGAL, India); Neti Vishwanathan and S Porpandiselvi (National Institute of Technology Warangal, India) |
| 3 | 1570574365 | Effect of Shifting Gate Pulse on CCM/DCM Boundary in Coupled SIDO Boost Converter | Nupur and Shabari Nath (IIT Guwahati, India) |
| 4 | 1570574373 | Estimation of Core Loss of High Frequency Nanocrystalline Transformer for Non-sinusoidal Excitation | Archit Joshi (Indian Institute of Technology, Guwahati, India); Shabari Nath (IIT Guwahati, India) |
| 5 | 1570574412 | Small Signal Modeling and Analysis of Single Input Three Output Buck Converter Using Coupled Inductor | Gayatri Nayak and Shabari Nath (IIT Guwahati, India) |
| 6 | 1570574545 | Estimation Scheme for Instantaneous Sub-Module Capacitor Voltage of Modular Multilevel Converter Sensed at Low Sampling Rate | Bishwajyoti Purkayastha (Indian Institute of Technology Kharagpur, India); Tanmoy Bhattacharya (IIT Kharagpur, India) |

***DAY – 3 // 15.12.2019 : Session III* (09:45 am to 11:00 am)**

**TRACK-1: Drives and Control**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570583867 | Comparative Study of Two Different PMSGs with Different Slot Pole Combination Having Non-Overlapping Winding Configuration | Avishek Bhandari (Indian Institute of Engineering Science And Technology, Shibpur, India); Sourabh Paitandi, Tutan Debnath and Mainak Sengupta (Indian Institute of Engineering Science and Technology, Shibpur, India) |
| 2 | 1570584731 | An Improved DTC Technique for Three-Level NPC VSI Fed Five-Phase Induction Motor Drive to Eliminate Common Mode Voltage | Bheemaiah Chikondra and Utkal Muduli (Indian Institute of Technology Patna, India); Ranjan Behera (IIT, Patna, India) |
| 3 | 1570586159 | Design, Co-simulation and Analysis of Reluctance Motor Drive Aided by Ferrite for Electric Vehicle Application | Nagarajan V S and Mahadevan Balaji (SSN College of Engineering, India); Kamaraj V (SSN College of Engineering, Anna University Chennai, India); Subash K, Babu Venkatesh S, Babu A, Anirhudh S and Arunkumar R (SSN College of Engineering, India) |
| 4 | 1570587037 | Electro-Magnetic Bearings with Power Electronic Control for High-Speed Rotating Machines: A Review | Kamisetti N V Prasad and Gopalaratnam Narayanan (Indian Institute of Science, Bengaluru, India) |

***DAY – 3 // 15.12.2019 : Session III* (09:45 am to 11:00 am)**

**TRACK-2:** **Renewable Energy Systems**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570574394 | Comprehensive Analysis of SOGI-PLL Based Algorithms for Single-Phase System | Surya Prakash and Jitendra Singh (Indian Institute of Technology Patna, India); Ranjan Behera (IIT, Patna, India); Arijit Mondal (IIT Patna, India) |
| 2 | 1570574443 | Solar PV Enabled Grid-Interactive Based Microgrid for Short and Medium Transmission Lines | Anish Ahmad and Surya Prakash (Indian Institute of Technology Patna, India); Ranjan Behera (IIT, Patna, India); Sanjay Kumar (Dy. Director General, National Institute of solar Energy Gurugram, India) |
| 3 | 1570574499 | A Low Voltage Ride Enhancement Technique for Wind Energy System | Shyamasundar Padhi (NIT Rourkela, India); Ponukumati Krishna (Madanapalle Institute of Technology and Science, Madanapalle, AP, India) |
| 4 | 1570574539 | Battery Emulation Using Dual-Active Bridge Converter | Suraj Dash (IIT Bombay, India); Mukul Chandorkar (Indian Institute of Technology-Bombay, India) |
| 5 | 1570588139 | Power Converter Assisted Operation of Wind-Driven SEIG for DC Microgrid | Nayanar V (TANGEDCO, India); Kumaresan Natarajan and N. Ammasaigounden (National Institute of Technology, Tiruchirappalli, India); Suhanya M S (NIT Tiruchirappalli, India) |

***DAY – 3 // 15.12.2019 : Session III* (09:45 am to 11:00 am)**

**TRACK-4(A) : Power Converter Topologies, Components and Devices**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570574551 | A New Multilevel Converter Configuration with Reduced Component Count for Medium Voltage STATCOM Application | Suman Maiti and Sreekesh K (Indian Institute of Technology Kharagpur, India) |
| 2 | 1570578863 | Family of High Frequency Nonisolated DC-DC ZVZCS Converters with High Conversion Range | Prashant Upadhyay and Rajneesh Kumar (Birla Institute of Technology and Science, Pilani, India); Shelas Sathyan (National Institute of Technology, Tiruchirappalli, India) |
| 3 | 1570579442 | State-space Modeling for a 4-Port DC-DC Converter | Ashish Laddha (Malaviya National Institute of Technology Jaipur Rajasthan, India); Satyanarayana N (MNIT, India); Vijayakumar Krishnasamy (Indian Institute of Information Technology Design & Manufacturing Kancheepuram, India) |
| 4 | 1570581305 | Design and Modelling of SRC Based Capacitor Charging Power Supply for High Power Klystron Modulator Using MULTISIM | Bhushan Padmakar Parate (National Institute of Technology Goa, India); R Sandeep Kumar (Society For Applied Microwave Electronics Engineering & Research(SAMEER), India); Kiran Thakur (SAMEER, India); Sreeraj ES (National Institute of Technology Goa, India); R Krishnan (SAMEER, India) |
| 5 | 1570582174 | Dual Frequency Series Resonant Converter Based LED Driver | Neti Vishwanathan (National Institute of Technology Warangal, India); Hemasundara Rao Kolla and Bhagwan K Murthy (NIT Warangal, India) |

***DAY – 3 // 15.12.2019 : Session III* (09:45 am to 11:00 am)**

**TRACK-4(B) : Power Converter Topologies, Components and Devices**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570583772 | Single Stage Current Fed Switching Based Hybrid Converter for Photovoltaic Application | Khetalkumar Mistry (NIT Trichy, India); Manoranjan Sahoo (NIT Tiruchirappalli, India); Shelas Sathyan (NIT Trichy, India) |
| 2 | 1570586290 | Independent Energy Management of Upper and Lower Bridges of Double Star Configured Modular Multilevel Converter | Risabh Sarangi and Teja Bandaru (Indian Institute of Technology Kharagpur, India); Tanmoy Bhattacharya (IIT Kharagpur, India); Dheeman Chatterjee (Indian Institute of Technology Kharagpur, India) |
| 3 | 1570586596 | Source Current Ripple Reduction for Multiple Load Induction Cooking Applications | Swati Devabhaktuni (National Institute of Technology, Warangal, India); Neti Vishwanathan and S Porpandiselvi (National Institute of Technology Warangal, India) |
| 4 | 1570586772 | Switched Inductor-Capacitor Network Based Non-Isolated DC-DC Converter with Single Switch: A Double2 Gain Converter | Kumaravel S (National Institute of Technology Calicut, India) |
| 5 | 1570586802 | Structure and Degradation of Aluminum Electrolytic Capacitors | Sagar Bhanudas Narale, Amit Verma and Sandeep Anand (Indian Institute of Technology Kanpur, India) |

***DAY – 3 // 15.12.2019 : Session IV* (01.45 pm to 03:15 pm)**

**TRACK-1: Drives and Control**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570587044 | Design, Finite Element Based Validation of a Multi-channel Axial Flux Double Sided Switched Reluctance Motor and Its Fabrication | Subhashis Sarkar and Mainak Sengupta (Indian Institute of Engineering Science and Technology, Shibpur, India) |
| 2 | 1570587049 | Experimental Vibration Studies on a Solid-Rotor Switched Reluctance Machine | Sakshi Narchail, Syed Shahjahan Ahmad and Shreyas Srivatsa (Indian Institute of Science, India); Pramod Kumar (Indian Institute of Science Bangalore, India); G Narayanan (Indian Institute of Science, India) |
| 3 | 1570582640 | Design Validation and Performance Evaluation of a BLDC of Commercial Electric Bike and Its Performance Comparision with Different Probable Designs | Aditya Raj, Sourabh Paitandi and Mainak Sengupta (Indian Institute of Engineering Science and Technology, Shibpur, India) |
| 4 | 1570586883 | Android Application Based Performance Parameters Analysis of Induction Motor | Venkata M (National Institute of Technology, Tiruchirappalli, India); Aaryan Shah (National Institute of Technology, India); Harsh Mahajan (National Institute of Technology Tiruchirappalli, India) |

***DAY – 3 // 15.12.2019 : Session IV* (01.45 pm to 03:15 pm)**

**TRACK-2 (A) : Renewable Energy Systems**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | | **Authors with affiliation** |
| 1 | 1570575517 | An Improved Pre-Filtered Three-Phase SRF-PLL for Rapid Detection of Grid Voltage Attributes | | Anant Kumar Verma (National Institute of Technology, Hamirpur) |
| 2 | 1570575962 | A Distributed Cooperative Droop Control Framework for Unified Operation of Shunt DC Electric Springs | | Satabdy Jena and Narayan Padhy (Indian Institute of Technology Roorkee, India) |
| 3 | 1570581021 | Communication Topology Selection for Secondary Controllers in DC Microgrid | | Abhiram V P, A B Shyam, Soumya Ranjan Sahoo and Sandeep Anand (Indian Institute of Technology Kanpur, India) |
| 4 | 1570582690 | A Feedback Based Hybrid Islanding Detection Method and Voltage Ride-Through of One Cycle Controlled PV Inverter | | Venkata R Reddy (NIT Goa, India); Sreeraj ES (National Institute of Technology Goa, India) |
| 5 | 1570587016 | DC-DC Converter Assisted Fault Current Control in DC Microgrid | | Kuppili Anirudh and Himanshu Bahirat (Indian Institute of Technology Bombay, India); Kishore Chatterjee (IIT Bombay, India) |
| 6 | 1570565703 | Coordinated Power Loss Minimization Technique for Distribution Systems in the Presence of Electric Vehicles | Suresh Velamuri (SASTRA Deemed University, India); Suresh Kumar Sudabattula (Lovely Professional University, India); S Hari Charan Cherukuri (Vellore Institute of Technology(VIT), India) | |

***DAY – 3 // 15.12.2019 : Session IV* (01.45 pm to 03:15 pm)**

**TRACK-2 (B) :** **Renewable Energy Systems**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570585922 | Application of Time Delay Recurrent Neural Network for Shunt Active Power Filter in 3-Phase Grid-tied PV System | Hemant Saxena (Delhi Technological University, India); Alka Singh (DTU, India); Jitendra Rai (Delhi Technlogical University, India) |
| 2 | 1570572183 | Operation and Power Management of Grid Connected Solar PV System with Critical Load and Battery Backup | MariaJenisha Charles and N. Ammasaigounden (National Institute of Technology, Tiruchirappalli, India); Rohit Soni (NITT, India) |
| 3 | 1570586637 | A Rotor-Current Based Control Strategy for a Wind-Driven Stand-Alone WRIM | Suhanya M S (NIT Tiruchirappalli, India); Kumaresan Natarajan (National Institute of Technology, Tiruchirappalli, India) |
| 4 | 1570586718 | Energy Saving Scheme for Grid Connected Pico-Hydro Energy Conversion System Supplying Hybrid Loads | Arthishri Krishnan (NIT, Tiruchirappalli, India); Kumaresan Natarajan (National Institute of Technology, Tiruchirappalli, India); Alok Chandra Dwivedi (NIT, Tiruchirappalli, India) |
| 5 | 1570586846 | Analysis on Fault Current Contribution by Different Types of DGs and Relay Coordination in Non-Autonomous Micro-Grids | Venkata M (National Institute of Technology, Tiruchirappalli, India); Subramaniam Srividhya (National Institute of Technology, Trichy, India); Johny Keerthana (M. A. M College of Engineering and Technology, India) |
| 6 | 1570573884 | AISMC for Islanded Operation of Wind Driven SEIG Based DC Nanogrid | Saurabh Kumar (Malaviya National Institute of Technology Jaipur, India); Vijayakumar Krishnasamy (Indian Institute of Information Technology Design & Manufacturing Kancheepuram, India); Ashok Bhupathi Kumar Mukkapati (Indian Institute of Information Technology Design and Manufacturing Kancheepuram, India); Rajvir Kaur (Singapore University of Technology and Design) |

***DAY – 3 // 15.12.2019 : Session IV* (01.45 pm to 03:15 pm)**

**TRACK-3 :** **Power Flow Control**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570582019 | Self Powered Low Voltage DC Circuit Breaker | Rajesh M and Himanshu Bahirat (Indian Institute of Technology Bombay, India) |
| 2 | 1570584425 | Virtual Power Quality Disturbance Classifier Using Knowledge-based Neural Network | Harshal Gajanan Jamode and Karthik Thirumala (National Institute of Technology Tiruchirappalli, India); Trapti Jain (Indian Institute of Technology, Indore, India); Amod C. Umarikar (IIT Indore, India) |
| 3 | 1570586255 | Multi-Pulse Converter Based DSTATCOM for Power Quality Improvement in Distribution System | Saravana Prakash P (National Institute of Technology Karnataka, Surathkal & National Institute of Technology, Puducherry, India); Kalpana R (National Institute of Technology Karnataka, India); Bhim Singh (Indian Institute of Technolgy, Delhi, India) |
| 4 | 1570573929 | Control of Two Level Converter Based STATCOM with Battery and Ultracapacitor Based Storage System | Anil Bharadwaj and Suman Maiti (Indian Institute of Technology Kharagpur, India); Nirmalya Dhal (IIT Kharagpur, India); Shuvam Chakraborty (Indian Institute of Technology Kharagpur, India) |

***DAY – 3 // 15.12.2019 : Session IV* (01.45 pm to 03:15 pm)**

**TRACK-4:** **Power Converter Topologies, Components and Devices**

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| **Sl. No.** | **Paper ID** | **Title of the paper** | **Authors with affiliation** |
| 1 | 1570586803 | Comparative Evaluation of Space Vector Based PWM Techniques in Terms of Switching Losses | Kavita Nanshikar (National Institute of Technology Goa, India); Koushik S (National Institute of Technology Goa, Farmagudi, Ponda, Goa,Pin-403401); Soumitra Das (National Institute of Technology, Goa, India) |
| 2 | 1570586836 | Comparison of Fixed Switching Frequency Based Optimal Switching Vector MPC Algorithms Applied to Voltage Source Inverter for Stand-alone Applications | Siva Kumar Gannamraju and Durgaprasad Valluri (IIT HYDERABAD, India); Ravikumar Bhimasingu (Indian Institute of Technology (IIT), Hyderabad, India) |
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