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Oral Session Details

Oral Session 1		
Session Title: PC1		Venue: CLT
Date & Time: 19-12-2018, 9:55-11:40		
Session Chair: Holtz, Wuppertal		
Time Slot	Paper ID	Paper details
9:55-10:10	5	Optimised Design and Implementation of SVPWM Switching sequences for Five level VSI <i>G Vivek, Jayanta Biswas, Aswini Kumar Muthavarapu, Meenu D Nair, Mukti Barai</i>
10:10-10:25	283	A New Topology of Multilevel Inverter with Reduced Number of Switches and Increased Efficiency <i>Sukanya V., Nirmal Mukundan C.M., Jayaprakash P., Asokan O.V.</i>
10:25-10:40	387	Hybrid Multilevel Inverter Topology With Reduced Part Count <i>J S M Ali, N. Sandeep, Krishnasamy Vijayakumar, Udaykumar R. Yaragatti, Frede Blaabjerg</i>
10:40-10:55	565	Simulation and Harmonic Analysis of Six Phase Three Level Neutral Point Clamped Inverter <i>Darpan Deshmukh, Rajendrakumar D. Kulkarni, Rinson Antony</i>
10:55-11:10	119	FPA Optimized Selective Harmonic Elimination PWM Technique Application in Reduced Switch Count Multilevel Inverter <i>Kaibalya Prasad Panda, Prabhat Ranjan Bana, Gayadhar Panda</i>
11:10-11:25	607	A Novel Single Phase Fault Tolerant Multilevel Inverter Topology <i>Nishant Dewangan, Manik Jalhotra, Lalit Kumar Sahu, Shivam Prakash Gautam, Shubhrata Gupta</i>
11:25-11:40	593	1.618 – The golden number for generating five phase space vector PWM <i>Anish Gopinath, Shiny G</i>
Session Title: EM1		Venue: ICH1
Date & Time: 19-12-2018, 9:55-11:40		
Session Chair: Srirama Srinivas (IIT Madras)		
Time Slot	Paper ID	Paper details
9:55-10:10	932	Parameter estimation and performance evaluation of a Linear Permanent Magnet Synchronous Motor prototype <i>Monojit Seal, Mainak Sengupta</i>
10:10-10:25	74	Using Intentional Magnetic Saturation for HFI Based Self-Sensing with SPMSM <i>Ye gu Kang, Robert D. Lorenz</i>

10:25-10:40	104	Effect of skewing on Cogging Torque in a Variable Flux Interior Permanent Magnet Synchronous Machine <i>Dwaipayan Barman, Pragasen Pillay</i>
10:40-10:55	660	Parameter estimation and performance evaluation of laboratory developed Interior Permanent Magnet Motor <i>Pinaki Mukherjee, Sourabh Paitandi, Mainak Sengupta</i>
10:55-11:10	855	Performance improvement in PM machine using two-piece stator design <i>Madhavan Ramanujam</i>
11:10-11:25	190	Simulation of Stator Winding Faults with an Analytical Model of a PMSM <i>Simon Foitzik, Martin Doppelbauer</i>
11:25-11:40	483	Magnetic Equivalent Circuit for Surface-Mounted PMSM <i>Manju Bhashini R, Ragavan K</i>
Session Title: PC2		Venue: ICH3
Date & Time: 19-12-2018, 9:55-11:40		
Session Chair: Madhav Manjrekar, University of North Carolina, Charlotte		
Time Slot	Paper ID	Paper details
9:55-10:10	561	A Three-Level Half-Bridge Flying Capacitor Topology for Single-Stage AC-DC LLC Resonant Converter <i>Antony K Peter, Jaison Mathew</i>
10:10-10:25	609	Design and Development of Multi-Phase Rectifier With Reduced Magnetic Rating Saravana Prakash P ,R Kalpana,Bhim Singh,G. Bhuvaneshwari
10:25-10:40	141	Simplified Input Voltage Sensorless Vector Control for PWM Rectifiers <i>Kapil Upamanyu, Chitrunk Ameta, G Narayanan</i>
10:40-10:55	625	Investigation of Single-Phasing Effect on Zigzag Autoconfigured Transformer Based 12-Pulse Rectifier <i>Kalpana R,Saravana Prakash P,Vidyasagar V S,Bhim Singh</i>
10:55-11:10	774	Hybrid Converter with Simultaneous DC and AC Outputs using Fuzzy Controllers Bhooshan Rajpathak, Jayant Mane, G V Subba Reddy
11:10-11:25	874	Parallel Hybrid Converter: Derived Topologies and Control <i>Siba Kumar Patro, Anshuman Shukla</i>
11:25-11:40	877	A Four-Quadrant Three-Phase AC-DC Converter for Virtual Electric Traction Machine Arvind H. Kadam, Rishi Menon, Sheldon S. Williamson
Session Title: PQ1		Venue: ICH4
Date & Time: 19-12-2018, 9:55-11:40		
Session Chair: Hiralal Suryawamshi, VNIT, Nagpur		
Time Slot	Paper ID	Paper details

9:55-10:10	44	Design of Backstepping Controller for a Three-phase Shunt Active Filter Interfacing Solar Photovoltaic System to Distribution Grid <i>Jayasankar V N, Vinatha U</i>
10:25-10:40	1001	Voltage sag mitigation using distributed generation for an Industrial Distribution System <i>Chinmaya Behera, Mamata Debbarma, Abhishek Banik, Galiveeti Hemakumar Reddy, Arup Kumar Goswami</i>
10:40-10:55	1072	A Si IGBT and SiC MOSFET Hybrid Shunt Active Filter <i>Aloka Mohapatra, Shekhar Bhawal, Kamalesh Hatua</i>
10:55-11:10	539	Simplified Adaline based control of Shunt Active Power filter with reduced sensors <i>Shivangni Sharma, Vimlesh verma, Badini Sai Shiva</i>
11:10-11:25	556	Eight Switch CHB based Three Phase Shunt Active Filter <i>Muneer V, Avik Bhattacharya, Chandra Prakash Gupta</i>
11:25-11:40	234	Performance Investigations of Adaptive ANN-SVPWM Controlled Shunt Active Power Filter <i>Karan Arora, Hind Bhatt, P. N. Tekwani, Siddharthsingh K. Chauhan, M. T. Shah</i>
Session Title: EM2		Venue: ICH5
Date & Time: 19-12-2018, 9:55-11:10		
Session Chair: Tanmoy Bhattacharya, IITKgp		
Time Slot	Paper ID	Paper Details
9:55-10:10	227	Analysis of Single Phase Transformer Excited by Superposition of Square and Sine Wave <i>Upender Reddy Muthyala, Ashwin Dhabale</i>
10:10-10:25	160	Comparison of Force Developed in a Linear Induction Machine and an Equivalent Arc Linear Induction Machine at Zero Velocity <i>Angshudeep Majumdar, Tapas Kumar Bhattacharya</i>
10:25-10:40	715	Estimation of Losses and Performance Parameters of Three Phase Induction Motor using Particle Swarm Optimization and H – G Diagram <i>Diptarshi Bhowmick, Suparna Kar Chowdhury</i>
10:40-10:55	641	Conductivity Estimation for Reliable Assessment of Power Transformer Insulation at Reduced Time <i>S. Chatterjee, N. Haque, A.K. Pradhan, S. Dalai, B. Chatterjee</i>
10:55-11:10	658	Basic Design equations of Linear Electric Machines <i>Neeta Govindpure, Ram Hipparagi, Arbind Kumar, D. B. Talange, V.B. Bhole</i>
Session Title: PC3		Venue: ICAD

Date & Time: 19-12-2018, 9:55-11:10		
Session Chair: Srinivas Bhaskar, IITBB		
Time Slot	Paper ID	Paper details
9:55-10:10	254	Analysis of Current Ripple in Ćuk Converter Topologies – A Novel Approach <i>Anushree Ramanath, Abhijit Kshirsagar, Ned Mohan</i>
10:10-10:25	656	Low Source Current Ripple Buck-Boost Converter <i>M. Veerachary, Vasudha Khubchandani</i>
10:25-10:40	1085	Inner Loop Stability of Peak Current Controlled Cuk and SEPIC Converters <i>Ashok Kumar, Parthasarathi Sensarma</i>
10:40-10:55	571	Analysis and Design of Quadratic Following Boost Converter <i>M. Veerachary, Nikhil Kumar</i>
10:55-11:10	365	Comparing Performances of SIDO Buck Converters <i>Gayatri Nayak, Shabari Nath</i>
Session Title: RE1		Venue: RHM1
Date & Time: 19-12-2018, 9:55-11:40		
Session Chair: Rajesh Gupta, MNITA		
Time Slot	Paper ID	Paper details
9:55-10:10	20	Prosumer based energy management with optimal sized renewable energy integration - B. Lokeshgupta, S. Sivasubramani
10:10-10:25	57	Probabilistic optimal reactive power planning with wind generation <i>Neeraj Gupta</i>
10:25-10:40	581	Technical and Fiscal benefits of committing DG in Energy Market during contingency <i>Ritu Jain, Vasundhara Mahajan</i>
10:40-10:55	107	A Multi Objective Control Strategy Based Power Flow Management Of Pv System For Remote Power Solutions <i>Anuradha T, DeivaSundari P</i>
10:55-11:10	193	Optimal Planning of Distribution Network with DSTATCOM and WTDG using RTO Technique <i>Surajit Sannigrahi, Sriparna Roy Ghatak, Parimal Acharjee</i>
11:10-11:25	977	Generic Lithium Ion Battery Model for Energy Balance Estimation in Spacecraft <i>Ananda S, Lakshminarasamma N, Radhakrishna V, Srinivasan M S, Satyanarayana P Sankaran M</i>

Session Title: RE2		Venue: RHM2
Date & Time: 19-12-2018, 9:55-11:40		
Session Chair: Amod.C.Umarikar, IIT Indore		
Time Slot	Paper ID	Paper details
9:55-10:10	256	PMSG Based Variable Speed WECS with Parallel Back-to-Back (B2B) Converters Using Separate ZDC Control <i>Dhanashree Porate, S. P. Gawande, K. B. Porate, R. N. Nagpure, M. A. Waghmare, S. G. Kadwane</i>
10:10-10:25	1040	Robust Control of IPMSG Based Wind Energy Conversion Systems <i>S. Saha, M. E. Haque, A. Gargoom</i>
10:25-10:40	111	Grid Disturbance Analysis with Grid Connected Wind Energy System <i>Sameer Singh, Bhavna Jain</i>
10:40-10:55	267	Sliding Mode Observers Based Wind Velocity Estimation Method in Wind Energy Conversion Systems <i>Jakeer Hussain, Mahesh K. Mishra,</i>
10:55-11:10	382	A Novel Control Scheme for Wind Driven DFIG Interfaced with Utility Grid <i>Sambasivaiah Puchalapalli, Bhim Singh</i>
11:10-11:25	703	Wind-Storage Hybrid Turbine - Field Experience <i>Deepak Raj Sagi , Govardhan Ganireddy, Rajni Burra, Veena Padmarao,Rajni Burra ,Bernard Landa</i>
11:25-11:40	1087	Assimilation of Wind Plant to the Utility Grid by An Improved Active and Reactive Power Control <i>Buduma Parusharamulu , Vulisi Narendra Kumar, Gayadhar Panda</i>
Session Title: ID1		Venue: PPTH
Date & Time: 19-12-2018, 9:55-11:40		
Session Chair: AKS Bhat, University of Victoria		
Time Slot	Paper ID	Paper details
9:55-10:10	208	Stator Flux Based Model Reference Adaptive Observers for Rotor Position and Speed Estimation in Doubly-Fed Induction Machines <i>Ramu Nair. R, G. Narayanan</i>
10:10-10:25	882	A Technique for Eliminating Common Mode Currents in Open End Induction Motor Drives <i>Abanishwar Chakrabarti, Ardhendu Saha, Sujit K Biswas</i>
10:25-10:40	422	Rank Ordering Criteria Based Weighting Factor Evaluation in Model Predictive Torque Control of Five-Phase Induction Motor Drive <i>Apekshit Bhowate, Mohan Aware, Sohit Sharma</i>
10:40-10:55	940	Four quadrant operation of load commutated SCR based multilevel CSI fed open-end winding Induction motor drive

		<i>Prasoon Chandran Mavila, Rajeevan P. P.</i>
10:55-11:10	1041	A Space Vector Based PWM Scheme for Realization of Virtual Pentagon, Pentacle Connections in open-end Winding Five Phase Machine Drives with Single DC Source <i>Rajeevan P P, Prasoon Chandran M</i>
11:10-11:25	861	Rotor Flux Observer for Speed Sensorless IFOC Induction Motor at Low Speeds <i>Meghraj Morey, Vasudeo Virulkar</i>
11:25-11:40	156	Effect of wear and tear Bearing Fault in Induction Motor drives using FEM <i>Praveen Kumar N, Vinothraj C, Isha T B</i>

Oral Session 2		
Session Title: PC4		Venue: CLT
Date & Time: 19-12-2018, 14:55-16:10		
Session Chair: Jaison Mathew, GEC Thrissur		
Time Slot	Paper ID	Paper details
14:55-15:10	689	Design and Development of GaN HEMT based high performance LED Driver for Automotive DRL Application <i>Bhavya Y V, Prashobh Suresh V, Neeraja K, Udaya Sagar V, Chandrasekar V</i>
15:10-15:25	186	Design and Performance Evaluation of a General Purpose Device Characterization Setup <i>Roja Peri, Venkatramanan D, Sridevi K, Vinod John</i>
15:25-15:40	639	Replacing Si-IGBT by SiC Mosfet in High Gain Inverter: Challenges and Opportunities <i>Sonam Acharya, Nitin Singh Chauhan, Santanu K. Mishra</i>
15:40-15:55	714	Design, Analysis and Development of a SiC based 15 kVA General Purpose Inverter Stack for High Frequency Applications <i>Abhishek Kar, Saikat Dey, Mainak Sengupta</i>
15:55-16:10	391	Junction Temperature Calculation Of An IGBT Module In Simulation Platform <i>Nagesh J, Jampana VVN Bapiraju, Anshuman Srivastava</i>
Session Title: TP1		Venue: ICH1
Date & Time: 19-12-2018, 14:55-16:10		
Session Chair: Holtz, Wuppertal		
Time Slot	Paper ID	Paper details
14:55-15:10	69	Device loading of a Modular Multilevel Converter with Flying Capacitor Submodules <i>Deepak Ronanki, Sheldon S. Williamson</i>

15:10-15:25	108	A new control strategy for multiresonant voltage control of single phase multilevel inverter in stationary reference frame with nonlinear loads <i>Biju K , Rijil Ramchand</i>
15:25-15:40	366	Coordinated Control of Electric Tugboats Considering Inductive Power Transfer for better Fuel Efficiency <i>Birudula Anil Kumar, M Chandrasekar, Thanga Raj Chelliah, U S Ramesh</i>
15:40-15:55	No Show	Development and Field Trials of 2x500 kVA Hotel Load Converter for Electric Traction <i>Shoubhik Mukherjee,Deepak Gehlot,S Eswara Rao,Dr. BP Muni,Prashant Jain,G Balawanth Reddy,K Venkateshalu,Lakshmi Narayana Kathari,Girish Chand</i>
15:55-16:10	640	A modular multilevel traction converter configuration with reduced conversion stage <i>Bishwajyoti Purkayastha , Tanmoy Bhattacharya</i>

Session Title: SG1

Venue: ICH3

Date & Time: 19-12-2018, 14:55-16:10

Session Chair: Rajesh Kumar, MNITJ

Time Slot	Paper ID	Paper details
14:55-15:10	303	Band Pass Filter based Active Island Detection Technique for PMSG based WECS <i>Suman Murugesan, Venkatakirthiga Murali</i>
15:10-15:25	466	A Fault Tolerant Controller for PV Inverter in Microgrid Application <i>Vasav Gautam, Mahesh S. Illindala, Parthasarathi Sensarma</i>
15:25-15:40	479	Small Signal Stability Assessment of an Inverter-Based Microgrids With a Universal Droop and Internal Model-Based Controllers <i>Naresh Kumar Vemula, S. K. Parida</i>
15:40-15:55	132	Hybrid Control Technique for Load Sharing and Seamless Transition in Microgrid Mode of Operation <i>Girish G. Talapur, M. H. Suryawanshi, Rohit R. Deshmukh, Makarand S. Ballal, Rahul Choudhary</i>
15:55-16:10	844	Self-Adjustable Step Based Control Algorithm for Multifunctional PV System under Sag-Swell Conditions <i>Laxmi Narayan Patel, Shailendra Kumar, Bhim Singh, A L V yas</i>

Session Title: ID2

Venue: ICH4

Date & Time: 19-12-2018, 14:55-16:10

Session Chair: S.K.Panda, NUS

Time Slot	Paper ID	Paper details
14:55-15:10	21	Sensorless Control of Permanent Magnet Synchronous Motor with Flux Weakening Operation for Washing Machine Application

		<i>K.Renu, N.Krishna Kumari, S.G.Krishna</i>
15:10-15:25	142	A New Stator Resistance Estimation Technique for Vector Controlled PMSM Drive <i>Sai Shiva Badini, Vimlesh Verma</i>
15:25-15:40	1084	An Extended Kalman Filter based Sensorless Permanent Magnet Synchronous Motor Drive with Improved Dynamic Performance <i>Gopinath G. R, Shyama P.Das</i>
15:40-15:55	174	Multi-Objective Steepest Descent Optimization for MTPA Control of IPMSM Drive <i>Elijah T Toppo, R Chudamani</i>
15:55-16:10	520	Effect of q-axis Inductance on the Design of an Industrial Inset PMSM Drive with Restricted DC bus Voltage <i>Sandeep V Nair, Shekhar Bhawal, Kamalesh Hatua, NVPR Durga Prasad, D Kishore Reddy</i>
Session Title: PQ2		Venue: ICH5
Date & Time: 19-12-2018, 14:55-16:10		
Session Chair: Mahesh Kumar, IIT Madras		
Time Slot	Paper ID	Paper details
14:55-15:10	650	Modified Phase shift Control for DAB based Bidirectional Onboard EV Charger <i>Debasish Mishra, Bhim Singh, B.K.Panigrahi</i>
15:10-15:25	748	Utility Grid Interfaced Solar Water Pumping System Using PMSM Drive <i>Shadab Murshid, Bhim Singh</i>
15:25-15:40	866	Power Quality Improvement in Single Phase Five Level Cascaded Grid Interfaced Systems <i>Bhim Singh, Nidhi Mishra, Piyush Kant</i>
15:40-15:55	900	Model Predictive Control Based Reactive Power Compensation for integration of Packed U Cell Inverter with Grid <i>Mahetab Alam, Mohd Tariq, Mohd Anas Anees, Abdul Azeem, Kaif Ahmed Lodi, C. Bharatiraja,</i>
15:55-16:10	614	Power Management of Multi-level Renewable-Grid Integrated Hybrid Energy Harvesting System using Model predictive Approach <i>Sachin Chauhan, Narsa Reddy Tummuru, Bharat Singh Rajpurohit</i>
Session Title: PC5		Venue: ICAD
Date & Time: 19-12-2018, 14:55-15:55		
Session Chair: Rajesh Gupta, MNITA		
Time Slot	Paper ID	Paper details

14:55-15:10	760	Seven-Level Packed U-Cell (PUC) Converter with Natural Balancing of Capacitor Voltages <i>Rajesh V, Sumit Chattopadhyay, Chandan Chakraborty</i>
15:10-15:25	149	Generalized Sector Detection Technique for Current Error Space Phasor Based Hysteresis Controller Applied to Multi-Level Front-End Converters <i>M. T. Shah, Siddharthsingh K. Chauhan, P. N. Tekwani</i>
15:25-15:40	528	A single phase cascaded five level Quasi Switched Boost Inverter based on switched capacitor structure <i>Sriramalakshmi Palanidoss, Sreedevi V.T</i>
15:40-15:55	749	Asymmetrical Multilevel Inverter Topology with Reduced Number of Components <i>Marif Daula Siddique, Saad Mekhilef, Noraisyah Mohamed Shah, Adil Sarwar, Mudasar Ahmad Memon, Mehdi Seyedmahmoudian, Ben Horan, Alex Stojcevski, Koki Ogura, Muhyaddin Rawa, Hussain Bassi</i>
Session Title: RE3		Venue: RHM1
Date & Time: 19-12-2018, 14:55-15:55		
Session Chair: M.Veerachary, IITD		
Time Slot	Paper ID	Paper details
14:55-15:10	127	Converter-less MPPT for rural area applications <i>Matam Manjunath, B. Venugopal Reddy</i>
15:10-15:25	958	Dynamically Converging Binary Search for PV-MPPT <i>Nishtha Verma, Vishal Verma</i>
15:25-15:40	1102	High Gain Energy Efficient Dc-Dc Converter For True Maximum Power Tracking In PV Applications <i>Kiran Y M, S. Srinivas</i>
15:40-15:55	262	A Novel Power Incremental GMPPT Method based on Modified Voltage Lines for Photovoltaic System <i>Xingshuo Li, Huiqing Wen, Yang Du, Lin Jiang, Yihua Hu, Weidong Xiao</i>
Session Title: ID3		Venue: PPTH
Date & Time: 19-12-2018, 14:55-16:10		
Session Chair: Rajeevan.P.P, IIST, Trivandrum		
Time Slot	Paper ID	Paper details
14:55-15:10	613	Torque Ripple Reduction Of BLDC Motor With Cuk Converter <i>Chamarthi Sivarama Raju, Susovon Samanta</i>
15:10-15:25	671	Power quality improvement in BLDC motor drive using Bridgeless Modified Cuk converter <i>A.Ramya, M. Balaji, C.Bharatiraja</i>

15:25-15:40	461	Hall-Effect Sensor Fault Diagnosis, Identification and Remedial Strategy in Permanent Magnet Brushless DC Drive <i>Cheshta Jain, Padam Garg, Amit Kumar Jain</i>
15:40-15:55	No Show	A new Rotor configuration of Brushless DC Motor to improve the dynamic response of an Actuator for Aero-space applications <i>B. V. Ravi Kumar, K Sivakumar, S Karunanidhi</i>
15:55-16:10	1068	Novel Methodology for Sensorless Control of Three Phase Variable Inductance BLDC Motor Driven Thruster for Under Water Applications <i>AN.Subramanian, Krishna Vasudevan, M.A.Atmanand, G.A.Ramadass</i>
Session Title: RE4		Venue: ICH2
Date & Time: 19-12-2018, 14:55-16:10		
Session Chair: Dheeman Chatterjee, IITKgp		
Time Slot	Paper ID	Paper details
14:55-15:10	586	Effective power sharing between Solar Refrigerator and DC Micro Grid <i>Rajkumar M, A. Rathinam</i>
15:10-15:25	699	PV Fed Cascaded Modified T Source Converter for DC Support to Grid Coupled Inverters <i>Aditya Narula,Vishal Verma</i>
15:25-15:40	701	Modular Multi-Input-Isolated Voltage Multiplier Converter for PV fed DC Microgrid <i>Shirish Raizada,Vishal Verma ,</i>
15:40-15:55	982	Design of Feedback Linearizing Model Predictive Controllers for Grid-Connected Systems with Multiple Photovoltaic Units <i>T. F. Orchi, M. A. Mahmud, Amanullah M. T. Oo</i>
15:55-16:10	198	Design and Optimization of PV-Isolated-Port Photovoltaic Differential Power Processing Systems <i>Guanying Chu, Huiqing Wen</i>

Oral Session 3		
Session Title: PC6		Venue: CLT
Date & Time: 19-12-2018, 16:45-18:00		
Session Chair: Rajeevan.P.P, IIST, Trivandrum		
Time Slot	Paper ID	Paper details
16:45-17:00	577	Optimized PWM Techniques with 3rd Harmonic Injection for Five Phase Concentrated Winding Induction Motor with Open-End Stator <i>Animesh Ray, Satish Belkhode,Ramsha Karampuri,Sachin Jain</i>

17:00-17:15	40	Field Experience on Effect of Power Electronic Component Failure in Excitation Circuit of a 5 MW Synchronous Motor <i>Suhel Gupta, Paresh Charola, Bharat Patel</i>
17:15-17:30	368	Model predictive Controller for Improved Hybrid Three Quasi Z source Inverter for DG Applications <i>Ramanjaneyulu Alla, Anandita Chowdhury</i>
17:30-17:45	535	Solar Powered BBI Based Inverter Topologies for Domestic Applications <i>Santosh Singh Yadav, Vaibhav Singh Chauhan, Suman Murugesan, Venkatakirthiga Murali</i>
14:47-18:00	780	Model predictive Controller for Improved Hybrid Three Quasi Z source Inverter for DG Applications <i>Ramanjaneyulu Alla, Anandita Chowdhury</i>

Session Title: PE **Venue: ICH1**

Date & Time: 19-12-2018, 16:45-17:45

Session Chair: SS Murthy, IITD

Time Slot	Paper ID	Paper details
16:45-17:00	209	Exploration of Virtual Laboratory in Power Engineering Courses <i>Huiqing Wen</i>
17:00-17:15	442	Power Electronics Laboratory Education using ARM Cortex M4 32-bit Microcontroller <i>Pradyumn Chaturvedi, M. A. Mulla, Siba Kumar Patro</i>
17:15-17:30	1101	Building Energy Management System for Transactive Energy Framework <i>Rohit Chandra, Soumen Banerjee, Sanjib Kumar Panda</i>
17:30-17:45	32	Woodbury Matrix Update Method for Inverse Admittance Matrix Formulation in Real-Time Simulation of Power Electronic Circuits <i>Sandeep V Nair, Mahesh B. Patil</i>

Session Title: ID4 **Venue: ICH3**

Date & Time: 19-12-2018, 16:45-18:00

Session Chair: Surya Doolla (IIT Bombay)

Time Slot	Paper ID	Paper details
16:45-17:00	347	A Novel Three-Phase Induction Motor Drive for Domestic Fan Application with Improved Reliability <i>Arpan Hota, Mohammad Qasim, James L. Kirtley, Vivek Agarwal</i>
17:00-17:15	968	Sensorless Vector Controlled Induction Motor Drive for Medium Power Applications <i>Piyush Kant, Bhim Singh</i>
17:15-17:30	462	LQR based Active Damping of Induction Motor Drive with Filter <i>Prasun Mishra, Ramkrishan Maheshwari</i>

17:30-17:45	1038	Sensorless Speed Estimation in Induction Machines at all Speed Ranges using Sensing Windings <i>Meryl Teresa Joy, Joachim Böcker</i>
17:45-18:00	78	MRAS based Speed Sensorless Model Predictive Torque Control of Induction Motor Drive <i>Adrish Bhaumik, Sukanta Das</i>
Session Title: PQ3		Venue: ICH4
Date & Time: 19-12-2018, 16:45-18:00		
Session Chair: Hiralal Suryawamshi, VNIT, Nagpur		
Time Slot	Paper ID	Paper details
16:45-17:00	922	A Power Quality Improved EV Battery Charger with Bridgeless Cuk Converter <i>Radha Kushwaha, Bhim Singh</i>
17:00-17:15	933	Decision Making for Environmental/Economic Dispatch Based on Optimal Power Flow <i>Chixin Xiao, Danny Sutanto, Kashem M. Muttaqi, Minjie Zhang</i>
17:15-17:30	207	Affine Parameterization for the Dual Phase-Shifted Bidirectional Isolated DC-DC Converters <i>Huiqing Wen, Zhenyan Cao</i>
17:30-17:45	200	Improved natural switching surface based boundary control for bidirectional DC-DC converters <i>Huiqing Wen, Yogeshwar Gajadur</i>
17:45-18:00	201	Minimum Backflow Power Control of Bidirectional Isolated DC-DC Converters <i>Huiqing Wen, Lin Zheng</i>
Session Title: SG2		Venue: ICH5
Date & Time: 19-12-2018, 16:45-18:00		
Session Chair: Mahesh S. Illindala, Ohio State University, Columbus, USA		
Time Slot	Paper ID	Paper details
16:45-17:00	67	Risk Adjusted Co-optimization of ATC in Transmission-Distribution System with Renewables <i>Nimal Madhu M, Vivek Mohan, Jai Govind Singh, Reshma Suresh</i>
17:00-17:15	446	A Simple Indicator based PLL for Distorted Grid Conditions <i>Shan S, Nakul Narayanan K, L Umanand</i>
17:15-17:30	343	Improved SVM-HCC with Nearly Constant Switching Frequency for Electric Spring <i>Bhagyashree Mudaliar, S. P. Gawande, S.G. Kadwane, R. S. Pawar</i>

17:30-17:45	529	Comparative Analysis of Ripple-Based Passive Islanding Detection Techniques for Single-Phase Micro-Grid System <i>Rahul S. Somalwar, Diksha A. Shinde, Sumant G. Kadwane</i>
17:45-18:00	1079	A Novel Communication-less Frequency Restoration Technique in Droop Controlled Inverter-based Islanded AC Microgrid <i>Animesh Sahoo, Mihai Ciobotaru, Jayashri Ravishankar</i>
Session Title: PC7		Venue: ICAD
Date & Time: 19-12-2018, 16:45-18:00		
Session Chair: Tanmoy Bhattacharya, IITKgp		
Time Slot	Paper ID	Paper details
16:45-17:00	84	A New Five Level Dual Active Bridge DC-DC Converter for Solid State Transformer <i>Dharmendra Yadav , Pradyumn Chaturvedi, Sai Krishna Saketi</i>
17:00-17:15	544	A Solid State Transformer for Integration of High Power PV Plant to Medium Voltage Grid <i>Arun Chandrasekharan Nair, B. G. Fernandes</i>
17:15-17:30	886	A Matrix-Based Solid-State-Transformer For A Hybrid Nanogrid <i>Jaydeep Saha, Gorla Naga Brahmendra Yadav, Sanjib Kumar Panda</i>
17:30-17:45	1080	Analysis of High Frequency, High Ratio Transformer configurations for DC-DC Converter Applications <i>Poongothai C, Krishna Vasudevan</i>
17:45-18:00	983	Design Considerations for Medium Frequency High Power Transformer <i>Shivam Prakash Gautam, Shilpi Kedia , Himanshu J. Bahirat, Anshuman shukla</i>
Session Title: PC8		Venue: RHM1
Date & Time: 19-12-2018, 16:45-17:45		
Session Chair: Lakshminarasamma, IIT Madras		
Time Slot	Paper ID	Paper details
16:45-17:00	863	An Optimized Selective Harmonic Minimization-PWM Scheme for Cascaded H-Bridge Inverter Fulfilling NRS 048-2:2003 Grid code <i>Sourabh Kundu, Supratik Bhowmick, Subrata Banerjee</i>
17:00-17:15	869	A Single-Phase 5-Level Inverter Topology with Reduced Semiconductor Switches <i>V Janaki Ramaiah, K Siva Kumar</i>
17:15-17:30	737	Design of Controller for Selected Harmonic Power Elimination from DC Bus in Single Phase Inverter <i>Sujata Bhowmick ,L. Umanand</i>
17:30-17:45	388	3L Switching Sequences using Parallel Connected 2L VSIs <i>Kapil Shukla, Ramkrishan Maheshwari</i>

Session Title: RE5		Venue: ICH2
Date & Time: 19-12-2018, 16:45-18:00		
Session Chair: Santanu Mishra, IITK		
Time Slot	Paper ID	Paper details
16:45-17:00	654	Maximizing the Benefits of Volt-VAR Optimization in the Presence of Community Energy Storage <i>Shailendra Singh, Santosh Veda, S P Singh, Murali Baggu</i>
17:00-17:15	834	A Five-Parameter Analytical Curvefit Model for Open-Circuit Voltage Variation with State-of-Charge of a Rechargeable Battery <i>Lalit Patnaik, Sheldon Williamson</i>
17:15-17:30	675	Integration of Multiple Energy Storage Sections in Solar PV based HMGs using Multi-Input DAB <i>ChandraSekhar Nalamati, Alok Agrawal, Rajesh Gupta</i>
17:30-17:45	806	Amplitude Adaptive Filter Based Control for Grid Tied Multifunctional Solar Energy Conversion System <i>Syed Bilal Qaiser Naqvi, Shailendra Kumar, Bhim Singh</i>
17:45-18:00	367	Selection of Capacitor in PV System for Maximum Power Point Tracking <i>Subhendu Bikash Santra, Debashis Chatterjee, Shobhan Banerjee, Kundan Kumar, Manuele Bertoluzzo</i>

Oral Session 4		
Session Title: PC9		Venue: CLT
Date & Time: 20-12-2018, 9:55-11:40		
Session Chair: Srirama Srinivas (IIT Madras)		
Time Slot	Paper ID	Paper details
9:55-10:10	178	DC Fault Tolerant Hybrid Multilevel Converters Topologies for High Power Applications <i>Mahendra B. Ghat, Avinash Reddy, Anshuman Shukla</i>
10:10-10:25	286	A New Hybrid Submodule for MMC with DC Fault Ride-Through Capability <i>Yedida Ayyappa Rudrasimha, Mahendra B. Ghat, Anshuman Shukla</i>
10:25-10:40	133	A Generalized Fault Tolerant Multilevel Inverter for Switch Open-Circuit Faults <i>Santosh Kumar M, Vijay Borghate, Sidharth Sabyasachi</i>
10:40-10:55	131	Dual SVPWM strategy for digital implementation of any n -level MMC structure <i>Rupak Chakraborty, Anubrata Dey</i>

10:55-11:10	130	Circulating current elimination controller for Modular multilevel converter and submodule capacitor voltage analysis <i>Govind Avinash Reddy, Anshumna Shukla</i>
11:10-11:25	750	Internal Faults in Modular Multilevel Converter <i>Shilpi Kedia, Rohit S. Thute, Himanshu J. Bahirat, Anshuman Shukla</i>
11:25-11:40	616	Development of System-On-Chip Based Digital Control for Power Converter Application <i>Nitesh Agrawal, Susovon Samanta</i>
Session Title: EM3		Venue: ICH1
Date & Time: 20-12-2018, 9:55-11:25		
Session Chair: Pradyumn Chaturvedi, VNIT		
Time Slot	Paper ID	Paper details
9:55-10:10	357	Effect of Flux Barrier Shape on the Performance of a Two-Pole Line-Start Synchronous Reluctance Motor <i>Srinivas Baka, S. Sashidhar, B. G. Fernandes</i>
10:10-10:25	734	Non-linear Magnetic Characteristics Modeling for Switched Reluctance Machines <i>Rajdeep Banerjee, Parthasarathi Sensarma</i>
10:25-10:40	376	A New Brushless Synchronous Generator for DC Micro-grid Application <i>Saptarshi Basak, Chandan Chakraborty</i>
10:40-10:55	435	Design of a Novel U Shaped Dual Stator Brushless Doubly Fed Induction Machine <i>Sailesh Sourabh, S. K. Parida</i>
10:55-11:10	470	Experimental Investigation of MTPA Trajectory of Synchronous Reluctance Machine <i>Rajendra Thike, Pragasen Pillay</i>
11:10-11:25	474	Radial- and Axial-Flux Synchronous Motors for High-Speed Low-Power Applications <i>Neethu S, S.P. Nikam, B.G. Fernandes</i>
Session Title: PQ4		Venue: ICH3
Date & Time: 20-12-2018, 9:55-11:25		
Session Chair: Arun Karuppaswamy B (IIT Madras)		
Time Slot	Paper ID	Paper details
9:55-10:10	259	Robust LMI-LQR Control for DAB Converters <i>Peizhou Xia, Huiqing Wen, Haochen Shi, Qinglei Bu</i>
10:10-10:25	279	Carrier-Based Hysteresis Controlled Constant Switching Frequency Strategy for Three-Level Inverter Based DSTATCOM <i>S. P. Gawande, M. R. Ramteke, H. M. Suryawanshi, V. B. Borghate</i>
10:25-10:40	351	Renewable Energy Resources Integration to Grid with Improved Power Quality Capabilities And Optimal Power Flows <i>Kuppili Raviteja, Pratik Kumar Kar, Srinivas Bhaskar Karanki</i>

10:40-10:55	374	Improved Single Phase Instantaneous p-q Theory for DVR Compensating Non-Linear Load <i>D. N. Katole, M. B. Daigavane, S. P. Gawande, P. M. Daigavane</i>
10:55-11:10	592	Improved Adaptive Feed-Forward Harmonic Cancellation Technique for Grid Connected Photovoltaic System <i>Sudip Bhattacharyya, Shailendra Kumar, Bhim Singh</i>
11:10-11:25	504	Nonlinear Optimal STATCOM Controller for Power System Based on Hamiltonian Formalism <i>Asim Halder, Debasish Mondal, Nitai Pal</i>

Session Title: TP2

Venue: ICH4

Date & Time: 20-12-2018, 9:55-11:25

Session Chair: Seung-Ki Sul, Seoul National University

Time Slot	Paper ID	Paper details
9:55-10:10	1090	Efficient Wireless Charging of Batteries With Controlled Temperature and Asymmetrical Coil Coupling <i>Vaka Ravikiran, Ritesh Kumar Keshri, Manuele Bertoluzzo</i>
10:10-10:25	542	Implementation of Solar PV- Battery and Diesel Generator Based Electric Vehicle Charging Station <i>Bhim Singh, Anjeet Verma, A. Chandra, Kamal Al-Haddad</i>
10:25-10:40	475	A Variable DC Link Voltage in On-board Battery Chargers for Electric Vehicle Charging Application <i>A.V.J.S.Praneeth, Lalit Patnaik, Sheldon S Williamson</i>
10:40-10:55	950	A Power Factor Corrected LLC Resonant Converter for Electric Vehicle Charger Using Cuk Converter <i>Rahul Pandey, Bhim Singh</i>
10:55-11:10	273	Electro-Thermal Model for Non-Dissipative Reflex Charging <i>Sandhya Lavety, Ritesh Kumar Keshri, Madhuri A. Chaudhari</i>
11:10-11:25	263	Quad-Active-Bridge DC-DC Converter based On-board Power Electronic Interface for Electric-Vehicle <i>Vishal M. J., Arun Chandrasekharan Nair, B. G. Fernandes</i>

Session Title: EM4

Venue: ICH5

Date & Time: 20-12-2018, 9:55-11:25

Session Chair: Kamalesh Hatua, IIT Madras

Time Slot	Paper ID	Paper details
9:55-10:10	226	A Comparative Design Approach of a Novel Wide Angle Torque Motor for Pointing Mechanism for Space Application <i>Smitha Krishnan, Sajeev Kumar A., Harikrishnan A., Sreejith M.R., Ravichandran M.H., Sadasivan Achari V.T.</i>

10:10-10:25	848	DC-Link Voltage Regulation of Full-Power Converter for WECS in Weak-Grid Using a Variable-flux Dual-Stator PMSG <i>S K Gupta, R K Srivastava</i>
10:25-10:40	889	Temperature Distribution of 250 MW Hydro Turbine Synchronous Generator at Continuous Overloading Conditions <i>C. Carunaiselvane, Thanga Raj Chelliah, Deepak Khare</i>
10:40-10:55	892	Field Oriented Control Strategy for a Differential Induction Motor <i>Susovan Mukhopadhyay, Dipten Maiti, Sumita Sinha, Sujit K Biswas, Nirmal K. Deb, Gautam Poddar</i>
10:55-11:10	147	Analysis and Modelling of Three Winding Stator Interturn Fault on Induction Machine for Electric Vehicle Application <i>A.V.J.S.Praneeth, N.Vijaya Anand, K.S.Sandhu, Sheldon S Williamson</i>
11:10-11:25	23	Simulation of a 5-Pole Linear Induction Machine using Finite Element Method showing the Source Independence of the Peak-to-Peak Thrust Ripple <i>Angshudeep Majumdar, Tapas Kumar Bhattacharya</i>

Session Title: PC10

Venue: ICAD

Date & Time: 20-12-2018, 9:55-11:40

Session Chair: Mohan Aware, VNIT, Nagpur

Time Slot	Paper ID	Paper details
9:55-10:10	310	CCM-DCM Operation of a High Voltage Gain Boost-Flyback Derived Converter <i>Ashok Kumar, Parthasarathi Sensarma</i>
10:10-10:25	369	Voltage Mode Control of Magnetically Coupled SIDO Buck Converter <i>Gayatri Nayak, Shabari Nath</i>
10:25-10:40	172	Modeling and Control of Buck Converter based Solar PV Power Generation System <i>Venkatramanan D, Vinod John</i>
10:40-10:55	318	Direct 48V to 1V Step-Down DC-DC Converter <i>Telles Brunelli Lazzarin, Chokkalingam Bharatiraja, Brad Lehman</i>
10:55-11:10	909	A Two Switch Non-Isolated High Gain DC-DC Converter <i>Vinod Kumar Bussa, R K Singh, R Mahanty</i>
11:10-11:25	436	A New Soft-Switched High Gain Boost Converter <i>Ananta Pal, Shib Sankar Saha</i>
11:25-11:40	512	Interfacing Offshore Wind Farms with Onshore Utility Power Grids using MT-HVDC Link <i>Rasik Sarup, Prasanth Sahu, Madhav Manjrekar, Badrul Chowdhury</i>

Session Title: PC11

Venue: RHM1

Date & Time: 20-12-2018, 9:55-11:25		
Session Chair: Rajesh Gupta, MNITA		
Time Slot	Paper ID	Paper details
9:55-10:10	406	A Novel High Gain Soft-Switching Interleaved LCL Integrated Fly-back Step-up Converter without An Auxiliary Switch for DC Microgrid <i>Koteswara Rao Kothapalli, M.R. Ramteke, H.M. Suryawanshi</i>
10:10-10:25	547	A High Gain DC-DC Converter based on Switched Capacitor/Switched Inductor Arrangement <i>Avneet K. Chauhan, M. Raghuram, Abhishek K. Tripathi, Santosh K. Singh, Xiaogang Xiong, Pan Xuewei</i>
10:25-10:40	510	Design and Development of Modular Dual-Input DC/DC Step Down Converter for Telecom Power Supply <i>Kiran R, R Kalpana</i>
10:40-10:55	361	2-DOF Controlled Interleaved DC - DC Converter Operating in CCM Using Characteristic Ratio Assignment for Green Energy Source <i>Vijaya Vardhan Reddy. P, H. M. Suryawanshi, Girish G. Talapur</i>
10:55-11:10	236	A DC-DC Bidirectional Converter with Improved Mode Transition Technique <i>Ambuj Sharma, M. Veerachary</i>
11:10-11:25	421	A Dual Output Buck-Boost Converter for Solar PV Array Energized SRM Driven Irrigation Pump <i>Anjaneer Kumar Mishra, Bhim Singh</i>
11:25-11:40	966	QFT based Robust Controller design for Switched Inductor-Capacitor Hybrid Buck-SEPIC Two-Input DC-DC Converter <i>Vargil Eate Kumar, Veerachary MummadiCP1</i>
Session Title: RE6		Venue: RHM2
Date & Time: 20-12-2018, 9:55-11:40		
Session Chair: Mahesh Kumar, IITM		
Time Slot	Paper ID	Paper details
9:55-10:10	188	Control of Solar Power based Soft Switched Boost Converter for PMBLDC Motor Drive <i>Menka Dubey, Shailendra Sharma, Rakesh Saxena</i>
10:10-10:25	287	A novel Photovoltaic string model based on the lambert w function for partial shading conditions <i>Yadi Ma, Huiqing Wen, Xingshuo Li</i>
10:25-10:40	169	Cascaded H-Bridge Multilevel Inverter Based Grid Integration of Solar Power with PQ Improvement <i>Nirmal Mukundan C. M, Jayaprakash P</i>
10:40-10:55	158	A Shadow Tolerant Configuration for PV Integration to Grid using Modular Multilevel Converter

		<i>Anirudh Budnar Acharya, Dezso Sera, Lars E. Norum</i>
10:55-11:10	218	Design and Analysis of Packed U-Cell and SEPIC Converter Based Solar PV System for Grid Connection <i>Abdul Azeem, Mohsin Karim Ansari, Mohd Tariq, Adil Sarwar, Mahetab Alam, C. Bhartiraja</i>
11:10-11:25	980	Standalone PV system based on Isolated Quasi Z-Source Converter <i>Suvamit Chakraborty, Amod C. Umarikar</i>
11:25-11:40	448	Assessing The Impact Of Renewable Energy Integration In Tamil Nadu Grid <i>Namrata Chhabra, Dr. Tarlochan Kaur, Dr. Ravi Segal</i>
Session Title: RE7		Venue: PPTH
Date & Time: 20-12-2018, 9:55-11:40		
Session Chair: Chudamani, NIT Surat		
Time Slot	Paper ID	Paper details
9:55-10:10	915	Multilevel Inverter Based Single-Stage Grid Connected Photovoltaic System using Cascaded Two-Level Inverter <i>Nilesh Shah</i>
10:10-10:25	444	A Novel Single-Phase T-Type PV Inverter With Improved DC Utilization <i>Sumon Dhara, Arpan Hota, Sachin Jain, Vivek Agarwal</i>
10:25-10:40	602	Partial Unfolding Scheme for Grid Feeding Transformerless PV Inverter <i>Rustam Kumar, Madhurani Rajaput, Nachiketa Deshmukh, Dagadu More, Sandeep Anand</i>
10:40-10:55	478	A Buck-Boost Common-Mode Transformerless Inverter for Photovoltaic Applications <i>Komal H. Nanwani, Dagadu S. More</i>
10:55-11:10	638	Development of A Single-Phase Inverter for Application in a Hybrid Solar UPS <i>Tilin Oommen, Gyanendra Kumar Sah, K Eshwar, Deevyendu N Shukla, Parimal Gorat, P Meena</i>
11:10-11:25	618	Single stage PV fed reduced inverter based PMSM for standalone water pumping application <i>Karthikeyan A, Prabhakaran K K, Varsha S, Venkatesa Perumal B, S Mishra</i>
11:25-11:40	494	Speed Sensorless PMSM Driven Single-Stage SMC Controlled Solar Water Pumping System <i>Mohd. Kashif, Shadab Murshid, Bhim Singh</i>

Oral Session 5		
Session Title: PC12		Venue: CLT
Date & Time: 20-12-2018, 14:55-16:10		
Session Chair: Hiralal Suryawamshi, VNIT, Nagpur		
Time Slot	Paper ID	Paper details
14:55-15:10	1017	Comparison of Planar Transformer Architectures and Estimation of Parasitics for High Voltage Low Power DC - DC Converter <i>Vijaya Kumar N, N. Lakshminarasamma</i>
15:10-15:25	530	Magnetic Characterization of Ferromagnetic Alloys for High Speed Electric Machines <i>Chetan Urabinahatti, Syed Shahjahan Ahmed, G Narayanan</i>
15:25-15:40	533	Design, Analysis, Simulation, Fabrication and Experiments on a Voltage Source Inverter Fed Induction Heating Prototype <i>Anirban Nanda, Abhishek Kar, Mainak Sengupta</i>
15:40-15:55	987	A Novel Four Terminal Integrated Submodule Modular Multilevel Converter <i>Rahul Mishra, Vivek Agarwal</i>
15:55-16:10	440	Modified Cost Function based Switching Frequency Reduction Analysis for Finite State-MPC <i>Vijay Kumar Singh, Ravi Nath Tripathi, Tsuyoshi Hanamoto</i>
Session Title: TP3		Venue: ICH1
Date & Time: 20-12-2018, 14:55-16:10		
Session Chair: Rajeev Kumar Singh, IIT-BHU		
Time Slot	Paper ID	Paper details
14:55-15:10	18	DC Power System for Fishing Boat <i>Young-kwang Son, Seong-Yong Lee, Seung-Ki Sul</i>
15:10-15:25	719	Condition monitoring framework for Converter Transformers used in Marine Electric Propulsion <i>Aravinth Subramaniam, Sai Srinivas Manohar, Saurabh Bhandari, Sivakumar Nadarajan, Amit Kumar Gupta, Sanjib Kumar Panda.</i>
15:25-15:40	191	A Standard Mission Profile for Hybrid-electric Regional Aircraft based on Web Flight Data <i>Benedict Jux, Simon Foitzik, Martin Doppelbauer</i>
15:40-15:55	105	Analysis of Energy during Regenerative modes <i>Anand Raghavendra Rao, Matada Mahesh, B K Keshavan</i>
15:55-16:10	68	Single Carrier-based Pulse Width Modulator for Modular Multilevel Converters <i>Deepak Ronanki, Sheldon S. Williamson</i>
Session Title: ID5		Venue: ICH3

Date & Time: 20-12-2018, 14:55-16:10		
Session Chair: Mohan Aware, VNIT, Nagpur		
Time Slot	Paper ID	Paper details
14:55-15:10	842	PFC Based Integrated SEPIC-Flyback Dual Output Converter Fed SRM Drive <i>Aniket Anand, Bhim Singh</i>
15:10-15:25	425	Sensorless Control of Switched Reluctance Motor Based on Trapezoidal Inductance Profile <i>Ashutosh Jindal, Ragavan K</i>
15:25-15:40	314	Investigation of Pn and F-MRAS based Speed Estimators For Vector Controlled Switched Reluctance Motor Drive <i>Yawer Abbas Khan, Vimlesh Verma</i>
15:40-15:55	878	Comparative Analysis of Sensorless DTC schemes for a Synchronous Reluctance Motor Drive <i>Pradyumna Ranjan Ghosh, Anandarup Das, G. Bhuvaneswari</i>
15:55-16:10	493	Design of a Modified Three Phase Line Impedance Stabilization Network for Conducted Emission Test <i>Ladani Mitalkumar, Nisha P V, Sindhu T K</i>
Session Title: PQ5		Venue: ICH4
Date & Time: 20-12-2018, 14:55-15:55		
Session Chair: Arindam Ghosh, Curtin University		
Time Slot	Paper ID	Paper details
14:55-15:10	997	Effects of Including SVC & TCSC in An Existing Power System Under Normal Operating Condition - A Case Study - <i>Jayanta Piri (IEST, Shibpur), Gautam Bandyopadhyay (IEST, Shibpur), Mainak Sengupta (IEST, Shibpur)</i>
15:10-15:25	622	Virtual Impedance based DFCL for DVR During Downstream Faults - <i>Karthikeyan A (NIT Surathkal), Abhilash Krishna D G (NIT Surathkal), Nagamani C (NIT Trichy)</i>
15:25-15:40	1039	A 1-phase Static VAr Compensator with Low Current THD and Wide Control Range - <i>Dipten Maiti (Jadavpur University), Susovan Mukhopadhyay (Netaji Subhas Engineering College), Sujit Kumar Biswas (Jadavpur University)</i>
15:40-15:55	471	Decentralized Wide-area Neural Network Predictive Damping Controller for a Large-scale Power System - <i>Rajaa Vikhram Yohanandhan (SRM University), Latha Srinivasan (Thiagarajar College of Engineering)</i>
Session Title: ID6		Venue: ICH5
Date & Time: 20-12-2018, 14:55-16:10		
Session Chair: Kaushik Basu, IISc		
Time Slot	Paper ID	Paper details

14:55-15:10	850	PI and SOSM Controller Design for Speed Control of PMDC Motor Using Back EMF <i>Arun Kumar Paul</i>
15:10-15:25	1103	Effects of Input Phase Loss and Voltage Unbalance on Front end of Passive Low Harmonic VFD <i>Govarthanan R, Palanisamy K, Paramasivam S, Ramesh P</i>
15:25-15:40	981	Emulation of Wind Turbine System using Vector Controlled Induction Motor Drive <i>Ramu Nair, R. G. Narayanan</i>
15:40-15:55	243	Optimal Speed Identification for Energy Efficient Operation of VFD fed Parallel Pumps <i>Arun Shankar V. K, Umashankar S., Paramasivam S, Norbert Hanigovszki</i>
15:55-16:10	797	Improved Power Quality of Sensorless Speed Controlled PMBLDC Motor Drive <i>Chitra Bhattacharya, Shailendra Kumar Sharma, H.K. Verma</i>

Session Title: PC13

Venue: ICAD

Date & Time: 20-12-2018, 14:55-16:10

Session Chair: Srinivas Bhaskar, IITBB

Time Slot	Paper ID	Paper details
14:55-15:10	197	Triple Phase-Shifted Bidirectional Full-Bridge Converter with Wide Range ZVS <i>Qinglei Bu, Huiqing Wen</i>
15:10-15:25	128	Differential Mode Y-Source DC-DC Converter for Better Performance with Loosely Coupled Inductors <i>Reddiprasad Reddivari, Debashisha Jena, Gautham T N</i>
15:25-15:40	985	A High Efficient DAB Converter under Heavy Load Conditions Using Inner Phase Shift Control <i>V. Karthikeyan, S Rajasekar, S Pragaspathy, Frede Blaabjerg</i>
15:40-15:55	80	Perturb and Observe with Momentum Term applied to Current Referenced Boost Converter for PV Interface <i>Gautam A. Raiker, L. Umanand, Subba Reddy B</i>
15:55-16:10	1050	A New Current Source based Resonant Tank for Switch Stress Reduction in DC-DC Converter <i>Tuhin Subhra Sasmal, Parthasarathi Sensarma</i>

Session Title: SG3

Venue: PPTH

Date & Time: 20-12-2018, 14:55-16:10

Session Chair: Santanu Mishra, IITK

Time Slot	Paper ID	Paper details
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14:55-15:10	837	Voltage and Frequency Controller with Power Quality Improvement for PMSG Based Pico-Hydro System <i>Vineet P.Chandran, Shadab Murshid, Bhim Singh</i>
15:10-15:25	450	Stability Analysis of Phase Locked Loop Controllers for a Weak Grid Connected Voltage Source Converters <i>Nakul Narayanan K, Shan S, L. Umanand</i>
15:25-15:40	924	PLL-Less Compensation control for Single-Phase Grid Interfaced Wind Energy Generation System <i>Tripurari Nath Gupta, Shadab Murshid, Bhim Singh</i>
15:40-15:55	85	The Critical Penetration Level in Oscillator-Based Smart Grid <i>Huixin Zhang, Weidong Zhang, Jianxi Gao</i>
15:55-16:10	247	A Distributed Control for Adequate Power Sharing Based on Available Power in Sources <i>Rohit R. Deshmukh, Makarand S. Ballal</i>
Session Title: RE8		Venue: ICH2
Date & Time: 20-12-2018, 14:55-15:55		
Session Chair: M.Veerachary, IITD		
Time Slot	Paper ID	Paper details
14:55-15:10	1096	Real-time estimation of model parameters and state-of-charge of lithium-ion batteries in electric vehicles using recursive least-square with forgetting factor <i>Kaveh Sarrafan, Kashem Muttaqi, Sutanto Danny</i>
15:10-15:25	501	Modeling and Estimation of Remaining Useful Life of Single cell Li-Ion battery <i>J Saikrishna Goud, R Kalpana, Bhim Singh</i>
15:25-15:40	739	Solar Charge Controller for Lithium-Ion Battery <i>Raghavendra Naik K, Padmavathi K</i>
15:40-15:55	631	State of Charge Estimation of Supercapacitors with Fractional Order Modelling <i>Geethi Krishnan, Shantanu Das, Vivek Agarwal</i>

Oral Session 6		
Session Title: PC14		Venue: CLT
Date & Time: 20-12-2018, 16:45-18:00		
Session Chair: Seung-Ki Sul, Seoul National University		
Time Slot	Paper ID	Paper details

16:45-17:00	792	Predictive Average Current Control Considering Non-Idealities for a Boost PFC Converter <i>Harish Sudhakaran Nair, N Lakshminarasamma</i>
17:00-17:15	573	Peak current mode controlled Active Clamp Forward Converter with Magnetic Feedback <i>Maturi Krishnaja, Susovon Samanta, Keya Shukla, Rajendra Singh</i>
17:15-17:30	913	A Three Phase Isolated Buck-boost Derived PFC Converter with a Novel Clamping Circuit <i>Sivanagaraju Gangavarapu, Akshay Kumar Rathore, Vinod Khadkikar</i>
17:30-17:45	853	Control scheme for improved efficiency in H-bridge buck-boost converter <i>Akhilesh K, Lakshmi Narasamma N</i>
17:45-18:00	548	Digital Current Hysteresis Controller Based on Wide Bandwidth Inductor Current Estimation <i>Rajat Channappanavar, Santanu Mishra</i>
Session Title: RE9		Venue: ICH2
Date & Time: 20-12-2018, 16:45-18:00		
Session Chair: Kamalesh Hatua (IIT Madras)		
Time Slot	Paper ID	Paper details
16:45-17:00	1006	Rapid LVRT Control of a DFIG-Based Wind Power Plants Based on Adaptive IQ-V Characteristics <i>Khagendra Thapa, Kishan Jayasawal, Ganesh Marasini</i>
17:00-17:15	1077	Minimization of Thermal Stress on the Rotor Side Converter of DFIG while Operating Around Synchronous Speed <i>Md Nafiz Musarrat, Md. Rabiul Islam, Kashem M. Muttaqi, Danny Sutanto</i>
17:15-17:30	823	Enhancement of Fault Ride Through Capabilities for Grid-Connected DFIG-Based Wind Farms using Nonlinear Adaptive Backstepping Controllers <i>T K Roy, M A Mahmud, S N Islam, Amanullah M T Oo, K M Muttaqi</i>
17:30-17:45	931	Mitigation of IGE using STATCOM with DFIGs <i>Chirag V. Rohit, Pranav B. Darji, Hitesh. R. Jariwala</i>
17:45-18:00	941	An Adaptive Control For Power Sharing Between Single Phase Parallel Inverter In Single Phase Microgrid <i>Surya Prakash, Sukumar Mishra</i>
Session Title: ID7		Venue: ICH3
Date & Time: 20-12-2018, 16:45-18:00		
Session Chair: Jaison Mathew, GEC Thrissur		
Time Slot	Paper ID	Paper details
16:45-17:00	1069	Effect of Leakage Flux on the Design of an LCI-fed Active-Reactive Induction Motor Drive

		<i>Jose Titus, Kamalesh Hatua</i>
17:00-17:15	518	Direct Torque Control Algorithm with Synthetic Voltage Vectors for Symmetrical Six-Phase Induction Motor <i>Sohit Sharma, Mohan Aware, Apekshit Bhowate</i>
17:15-17:30	385	Performance Enhancement of Electric Vehicles using Vector Controlled Multiphase Induction Motor <i>M. Sowmiya, Dr. S. Hosimin Thilagar</i>
17:30-17:45	999	Decoupled Control of Two Series Connected Split-Phase Synchronous Machines From a Single Six-Phase Inverter <i>Nikunj Gupta, Sudharshan Kaarthik</i>
17:45-18:00	250	Decoupled Control of Dual-Split-Phase IMs for Full Power Range Using Capacitive Filters <i>Sagar Kumar Dash, Ranjith S, R. Sudharshan Kaarthik</i>
Session Title: SG4		Venue: ICH4
Date & Time: 20-12-2018, 16:45-18:00		
Session Chair: Rajesh Kumar, MNITJ		
Time Slot	Paper ID	Paper details
16:45-17:00	420	A Power Management Algorithm for DC Microgrid Based on Virtual Storage in Source <i>Rohit R. Deshmukh, Makarand S. Ballal</i>
17:00-17:15	1093	Dual-Input Dual-Output DC-DC Converter for DC Microgrid Application <i>Kumaravel S, V. Karthikeyan, Gangavarapu Guru Kumar, Jithin T. J., V. Seshagiri Rao</i>
17:15-17:30	569	Selection of Voltage Levels in DC Microgrids using DC Bus Signaling <i>Akansha Garg, Bhakti M. Joshi , Ramesh Oruganti</i>
17:30-17:45	758	Controller Gain Impact on Islanded DC Microgrid Stability with Constant Power Load <i>Rustam Kumar , Swati Sneha ,Ranjan Kumar Behera</i>
17:45-18:00	309	EnerGyan:A portable platform for microgrid education, research and development <i>Ashray Manur, David Sehloff, Giri Venkataramanan</i>
Session Title: ID8		Venue: ICH5
Date & Time: 20-12-2018, 16:45-18:00		
Session Chair: Anubrata Dey, IITR		
Time Slot	Paper ID	Paper details
16:45-17:00	998	Current Error SVPWM based Speed Sensorless IM drive with Stator Resistance Estimation <i>Rajeevan P P, Aathira Hegde, Athira G. S. , Sudharshan Kaarthik</i>
17:00-17:15	428	Sensorless Double-Inverter fed Wound Rotor Induction Motor Drive with Reduced Current Sensors

		<i>Nikhil Krishna Bajjuri , Amit Kumar Jain</i>
17:15-17:30	150	Analysis and Implementation of Three-Level Neutral Point Clamped Inverter Fed Induction Motor Drive <i>Siddharthsingh K. Chauhan, M. T. Shah, P. N. Tekwani</i>
17:30-17:45	1104	Current Distortion Effects on Front End of Variable Frequency Drive Under Shunt Active Filter Connected Grid <i>Ramesh P, Palanisamy K, Paramasivam S, Govarthanan R</i>
17:45-18:00	489	Generalized Charge Balancing Scheme for Symmetrical CHB Multilevel Inverters <i>Pratheesh K J, Jagadanand G, Rijil Ramchand, K Biju</i>
Session Title: PC15		Venue: ICAD
Date & Time: 20-12-2018, 16:45-17:45		
Session Chair: Rajeev Kumar Singh, IIT-BHU		
Time Slot	Paper ID	Paper details
16:45-17:00	769	Modeling and Experimental Verification of LCC-T Resonant Converter <i>Venkata R Vakacharla, Akshay Kumar Rathore, Sanjib K Sahoo</i>
17:00-17:15	722	Resonance based Current-fed Isolated DC/ DC Converter for High Voltage Applications <i>Vishal Anand A G , Kaushik Basu , Ranganathan Gurunathan</i>
17:15-17:30	676	Design and Comparison of Enhanced Voltage Gain Active Clamped Flyback Converters <i>Vasav Gautam, Sanjay Tolani, Parthasarathi Sensarma</i>
17:30-17:45	610	Power Quality Enhancement in AC-DC Converter Using Voltage Sensorless Control Technique <i>Saravana Prakash P ,R Kalpana,Bhim Singh,G. Bhuvaneshwari</i>
Session Title: PC16		Venue: PPTH
Date & Time: 20-12-2018, 16:45-18:00		
Session Chair: Siva kumar, IITH		
Time Slot	Paper ID	Paper details
16:45-17:00	702	A Comparison between Classical and Advanced Controllers for a Boost Converter <i>Arnab Ghosh, Subrata Banerjee</i>
17:00-17:15	617	Decoupled Vector Control of Grid Side Converter with Less Number of Sensors under imbalanced Grid Conditions <i>Himanshu Misra</i>
17:15-17:30	786	Zero Current Switching of CFSI using Auxiliary Circuit <i>Divya Yogi, Anil Gambhir, Santanu Mishra</i>
17:30-17:45	578	Pentagonal Space Vector Approach for Third Harmonic Injection Technique for Dual Five-Phase Open-Winding Inverter <i>Animesh Ray, Satish Belkhode, Ramsha Karampuri, Sachin Jain , Sanjeevikumar, Frede Blaabjerg</i>

17:45-18:00	242	Improved Power Quality LED Driver with SELV Norms for Streetlight Application <i>Aman Jha, Manoj Kumar</i>
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Oral Session 7		
Session Title: PC17		Venue: CLT
Date & Time: 21-12-2018, 9:55-11:40		
Session Chair: Damodharan (IIIT –D&M)		
Time Slot	Paper ID	Paper details
9:55-10:10	537	Derivation of a Single Stage Single Phase Buck-boost Inverter <i>Ashok Kumar, Parthasarathi Sensarma</i>
10:10-10:25	768	An Uni-directional Single Phase Soft-switched Resonant High Frequency Link Inverter <i>Vishal Anand A G, Kaushik Basu, Ranganathan Gurunathan</i>
10:25-10:40	380	Analysis and Design of a High Voltage Gain Modular HF Link Inverter Topology <i>Nishanth, C Poongothai, Krishna Vasudevan</i>
10:40-10:55	1044	A Novel PWM Technique for MMCs with High Frequency Link and Natural Capacitor Balancing for Grid-Interfacing of Renewables <i>Prince Kumar, Abhijit Kshirsagar, Daniel Opila, Ned Mohan</i>
10:55-11:10	754	Modeling and Voltage Regulation of Boost Inverter <i>Arunkumar Gopal, Elangovan Devaraj, Soumya Saha, Sahityika Poddar</i>
11:10-11:25	862	High Gain, High Frequency Link DC-AC Converter with Hybrid SPWM Scheme <i>Niraja Swaminathan, Lakshmi Narasamma N</i>
11:25-11:40	825	An Implementation Issue for 3L PWM Techniques for Parallel Interleaved 2L VSIs <i>Kapil Shukla, Ramkrishan Maheshwari</i>
Session Title: PQ6		Venue: ICH1
Date & Time: 21-12-2018, 9:55-11:25		
Session Chair: Shanti Swarup, IIT Madras		
Time Slot	Paper ID	Paper details
9:55-10:10	513	Frequency Adaptive Circle Tracing Observer Based Control Algorithm for Grid-Connected SECS <i>Priyank M Shah, Bhim Singh</i>

10:10-10:25	523	DFCE Based Control of Solar PV-Wind Energy System Interfaced to Distribution Network Seema, Bhim Singh
10:25-10:40	72	Decentralized Measurement based Adaptive Wide-area Damping Controller for a Large-scale Power System Rajaa Vikhram Yohanandhan, Latha Srinivasan
10:40-10:55	199	Optimal Minimized Reactive Power Boundary Control Based on the Six Natural Switching Surface Haochen Shi, Huiqing Wen, Zhenyan Cao
10:55-11:10	487	A Flexible and Coordinated Voltage Control Strategy for Smart Transformer Hrishikesan V M, Dwijasish Das, Chandan Kumar
11:10-11:25	969	Pre-Filter Based Third Order Sinusoidal Signals Integrator Algorithm for Grid Tied PV System Kanwar Pal, Shailendra Kumar, Bhim Singh, Tara C. Kandpal
Session Title: RE10		Venue: ICH3
Date & Time: 21-12-2018, 9:55-11:40		
Session Chair: Mahesh Kumar, IIT Madras		
Time Slot	Paper ID	Paper details
9:55-10:10	485	Optimum Filtering Theory Based Control for Grid Tied PV-Battery Microgrid System Shailendra Kumar, Bhim Singh
10:10-10:25	820	Effective Utilisation of Solar Energy Conversion System with Energy Storage in AC Microgrid Deepu Vijay M, Bhim Singh, G Bhuvaneswari, Ikhlq Hussain
10:25-10:40	762	Control of Mixed Energy Storage System Based Microgrid Using Modulator Less Model Predictive Control Bhaskara Rao Ravada, Narasa Reddy Tummuru, Ramesh Oruganti
10:40-10:55	995	Real Time Implementation of Control for Grid Integrated Photovoltaic with a Battery Support Shatakshi, Bhim Singh, Sukumar Mishra
10:55-11:10	964	Control Topology of Hybrid Energy Storage System for AC-DC Microgrid Aquib Jahangir, Vaibhav Nougain, Sukumar Mishra
11:10-11:25	971	Adaptive Bandpass Digital Filter Control of Photovoltaic-Battery Energy Storage Based Microgrid Shubhra, Bhim Singh
11:25-11:40	426	e-Battery for Energy Storage Systems Siddavatam Ravi Prakash Reddy, Nakul Narayanan K, L Umanand
Session Title: RE11		Venue: ICH4

Date & Time: 21-12-2018, 9:55-11:10		
Session Chair: Arun Karuppaswamy B (IIT Madras)		
Time Slot	Paper ID	Paper details
9:55-10:10	331	Impact of Hybrid Renewable Sources on the Transient Stability of Multi-machine Power System <i>Ghanasyam P, Astha Verma, Arghya Mitra</i>
10:10-10:25	359	An In-Built Synchronization Controller for Three-Phase Synchronverters <i>Hariharan R, Mahesh K. Mishra</i>
10:25-10:40	481	Fixed-Frequency MCCF Based Grid Synchronization Technique <i>Govind Kumar Maurya, Anant Kumar Verma, Chandrasekaran Subramanian, Bharat Bhusan Sharma</i>
10:40-10:55	635	Fast frequency support from hybrid solar PV and wind power plants <i>Rakesh Reddy Vattigunta, Zakir H. Rather, Ramakrishna Gokaraju</i>
10:55-11:10	83	Impact of PLL on Harmonic Stability of Renewable Dominated Power System: Modeling and Analysis <i>Indla Rajitha Sai Priyamvada, Sarasij Das</i>
Session Title: EM5		Venue: ICH5
Date & Time: 21-12-2018, 9:55-11:40		
Session Chair: Sivakumar.K, IITH		
Time Slot	Paper ID	Paper details
9:55-10:10	114	SPM Machine with Reduced Loss and Cogging for Wide-Speed Operating Range <i>Sreeju S Nair, Surajit Das, Ankan Dey, Samraj Jabez Dhinagar</i>
10:10-10:25	252	Modified Distributed Multiphase Winding for Space Harmonic Reduction <i>Durgesh Kumar Banchhor, Ashwin Dhabale</i>
10:25-10:40	238	Improved Analytical Method to Determine Flux-linkage Characteristics of a Switched Reluctance Machine <i>Rajdeep Banerjee, Parthasarathi Sensarma</i>
10:40-10:55	244	A Novel Poly-Phase Outer Rotor Homo-Polar Transverse Flux Machine using Ferrite Magnets <i>Gautam V. Havaladar, Bhavesh A. Rathod, Priyanka Golasgaonkar, B. N. Chaudhari</i>
10:55-11:10	717	Assessment of Noise Reduction in Switched Reluctance Motor Using Conformal Mapping <i>Parth Upadhyay, Naveen Kumar E, Ragavan K</i>
11:10-11:25	375	Negative Sequence Current Capability of Megawatt Hydro Generators at Up-rated Unbalanced Loads

		<i>C. Carunaiselvane, Thanga Raj Chelliah, S.V. Appa Sarma</i>
11:25-11:40	746	Conformal Mapping Based Investigation of Airgap Fields in SPM Motors <i>Naveen Deepak V, Naveen Kumar E, Ragavan K</i>
Session Title: PC18		Venue: ICAD
Date & Time: 21-12-2018, 9:55-11:40		
Session Chair: Lakshminarasamma (IIT Madras)		
Time Slot	Paper ID	Paper details
9:55-10:10	372	New Modulation Techniques for Single Phase to Three Phase Matrix Converter <i>Tabish Nazir Mir, Bhim Singh, Abdul Hamid Bhat</i>
10:10-10:25	271	Effect of Input Current Filter in Degrading Input Displacement Factor and Its Compensation for a Three Phase to Three Phase Matrix Converter <i>Debasish Das, Abhinandan Basak, Kaushik Mukherjee, Prasid Syam</i>
10:25-10:40	521	Integrated Modulation Technique for Switched capacitor Ultra Sparse Matrix converter <i>M Raghuram, Avneet K Chauhan, Santosh kumar Singh</i>
10:40-10:55	179	Sliding Mode Control based Dual-Port Back to Back Current Source Converter <i>Karthikrajan Senthilnathan, K.lyswarya Annapoorani</i>
10:55-11:10	1081	Fixed frequency based sliding mode controlled audio amplifier <i>Sridhar Joshi, Parthasarathi Sensarma</i>
11:10-11:25	634	Explicit Model Predictive Control of Quadratic Boost Converter for High Step-Up Applications <i>Vijay Prabhu J., Damodharan P</i>
11:25-11:40	393	Supply Current Quality Improvement for Three-Phase Matrix Converter under Unbalanced Supply Voltage Conditions <i>Payal Patel, Mahmadasraf A. Mulla</i>
Session Title: PC19		Venue: RHM1
Date & Time: 21-12-2018, 9:55-11:40		
Session Chair: Chudamani, NIT Surat		
Time Slot	Paper ID	Paper details
9:55-10:10	94	A new Three Phase 5L-UIPFC for wind energy applications <i>Naveen Yalla, Pramod Agarwal</i>
10:10-10:25	194	Power Converter Based Impedance Emulation of Passive Loads for Anti-Islanding Tests <i>Aditya Zade, D Venkatramanan, Vinod John</i>
10:25-10:40	253	Reduced Rating Active Phase Converter for Three Phase Induction Generator based Single Phase Grid-Tied Systems <i>Anil K Adapa, Vinod John,</i>

10:40-10:55	785	Distributed-MPP Tracking: Total-Cross-Tied (T-C-T) Configuration of DC-DC Converters to extract the Maximum Power under Partial Shading Conditions <i>Suneel Raju Pendem, Suresh Mikkili, Praveen Kumar Bonthagorla</i>
10:55-11:10	465	Grid Connected Wind-Solar Hybrid Topology controlled using TSBC <i>Arindam Das, Ujwal Kumar, Apurva Verma, Souradeep Pal, Aby Joseph Abanishwar Chakraborti, Bikram Das, Prabir Ranjan Kasari</i>
11:10-11:25	1002	A Generalized Framework for Synthesizing Virtual Output Impedance Control of Grid Integrated Power Electronic Converters <i>Sriram Karthik Gurumurthy, Marco Cupelli, Antonello Monti</i>
11:25-11:40	661	Analysis of a Fourth Order Step-Down Converter <i>Shrikant Misal, Mummadi Veerachary</i>
Session Title: RE12		Venue: ICH2
Date & Time: 21-12-2018, 9:55-11:40		
Session Chair: Darwan Sutanto, University of Wollongong Australia		
Time Slot	Paper ID	Paper details
9:55-10:10	589	Nonlinear Disturbance Observer Based Control of Three Phase Grid Forming Inverter for Distributed Generation System <i>Rishi Kant Sharma, Sukumar Mishra, Shiv Raman Mudaliyar</i>
10:10-10:25	549	Control of SCIG Based Distributed Power Generation Scheme Supplying Nonlinear and Unbalanced Load <i>Rupa Mishra, Tapas Kumar Saha</i>
10:25-10:40	636	Decentralized economic model predictive control for energy efficiency in a multi-zone building <i>Mona Subramaniam A, Tushar Jain, Joseph J Yamé</i>
10:40-10:55	773	A Novel Three Phase Transformerless inverter with Negative Grounding for PV application <i>Ibhan Chand Rath, Abhijit Kadam, Anshuman Shukla</i>
10:55-11:10	910	Performance Analysis of a Micro Grid VSI under Asymmetric Conditions <i>Abhishek Majumder, Souvik Roy, Sumana Chowdhuri</i>
11:10-11:25	171	Implementation and Investigation of Net Metering in Maharashtra State for Residential Consumers <i>Archana Talhar, Sanjay Bodkhe</i>
11:25-11:40	919	Load Profile of Telecom Towers and Potential Renewable Energy Power Supply Configurations <i>Niranjan Rao Devela, Bhim Singh, Tara C Kandpal</i>

Session Title: PC20		Venue: CLT
Date & Time: 21-12-2018, 14:55-16:25		
Session Chair: AKS Bhat, Victoria		
Time Slot	Paper ID	Paper details
14:55-15:10	817	A Generalized Low-cost Solution for Resonant Frequency Tracking in LLC Converters <i>Utsab Kundu, Parthasarathi Sensarma</i>
15:10-15:25	322	Minimization of the Number of Full-Bridge Sub-modules in Hybrid Modular Multilevel Converter <i>Teja Bandaru, Dheeman Chatterjee, Tanmoy Bhattacharya</i>
15:25-15:40	624	A 36-Pulse AC-DC Converter With DC Side Tapped Interphase Bridge Rectifier for Power Quality Improvement <i>Saravana Prakash P, R Kalpana, Khimavath Sai Chethana, Bhim Singh</i>
15:40-15:55	907	Parallel Operation of High Current Multi-pulse Converters feeding Nuclear Fuel Simulators <i>R.D. Kulkarni, Gaurava Deep Srivastava, Predeep Rautela</i>
15:55-16:10	992	Core Loss Estimation of Magnetic Links in DAB Converter Operated in High-Frequency Non-Sinusoidal Flux Waveforms <i>V. Karthikeyan, S Rajasekar, S Pragaspathy, Frede Blaabjerg</i>
16:10-16:25	311	Two High Voltage Gain Non-isolated DC-DC Converters with Ripple Free Input Current <i>Ashok Kumar, Parthasarathi Sensarma</i>
Session Title: TP4		Venue: ICH1
Date & Time: 21-12-2018, 14:55-16:10		
Session Chair: Rajnan Kumar Behera, IITP		
Time Slot	Paper ID	Paper details
14:55-15:10	975	Performance Improvement of Switched Reluctance Motor Drive for Light Electric Vehicle Using Fuzzy Logic Controller <i>Gurmeet Singh, Bhim Singh</i>
15:10-15:25	1056	A new Dual Stator-Dual Rotor Switched Reluctance motor for Electric vehicle propulsion <i>B. V. Ravi Kumar, K Sivakumar, S Karunanidhi</i>
15:25-15:40	540	Independent Phase Current Control of a Permanent Magnet Motor <i>K. S. Amitkumar, Pragasen Pillay</i>
15:40-15:55	192	Sensor-less Control of a PMSM for Safety Critical Applications Using Hysteresis Current Control in Case of an Encoder Failure <i>Felix Hoffmann, Marc Veigel, Martin Doppelbauer</i>
15:55-16:10	1031	Pole Changing Wide Speed Range Induction Motor Drive for Electric Vehicles <i>Rohith, L Umanand, Subba Reddy B</i>
Session Title: RE13		Venue: ICH3

Date & Time: 21-12-2018, 14:55-15:55		
Session Chair: Darwan Sutanto, University of Wollongong Australia		
Time Slot	Paper ID	Paper details
14:55-15:10	1049	Improved Selective Frequency Active Damping for Voltage Source Inverter with Output LC Filter <i>Sanjay Tolani ,Vasav Gautam, Parthasarathi Sensarma</i>
15:10-15:25	1091	A Novel Optimal Space Vector Modulation Technique of Current Source Inverter for Solar Power Integration <i>Kulothungan Gnanasambandam, Akshay K. Rathore, Amarendra Edpuganti, Dipti Srinivasan</i>
15:25-15:40	1037	A Control Scheme for Constant Voltage Auxiliary AC loads and DC Link Power in Induction Generator Systems <i>Athira G. S , Sudharshan Kaarthik , Rajeevan P P</i>
15:40-15:55	1012	Impact of Crash Override and Tampering Communication Data Cyber-Attacks on the Power Quality of Hybrid Grid System <i>Sagnika Ghosh , Mohd Hasan Ali</i>
Session Title: SG5		Venue: ICH4
Date & Time: 21-12-2018, 14:55-15:55		
Session Chair: Shanti Swarup, IIT Madras		
Time Slot	Paper ID	Paper details
14:55-15:10	835	Load Forecasting for a South African Power Distribution Networks Using ANFIS <i>Sibonelo Motepe, Ali N. Hasan, Riaan Stopforth</i>
15:10-15:25	860	Design of Demand Response based Load Management Solutions for a University Campus <i>Prableen kaur, Tarlochan kaur, Ravi Segal</i>
15:25-15:40	509	Multi-Party Energy Management for Economic Operation of Microgrid with Heat and Electricity Coupled Demand Response <i>Nabanita Chakraborty, Arpan Naskar, Amartya ghosh, Subhadip Chandra, Ambarnath Banerji, Sujit K. Biswas</i>
15:40-15:55	245	Optimized planning of power distribution network with solar energy, Battery storage and DSTATCOM: a Multi-objective approach <i>Sriparna Roy Ghatak, Surajit Sannigrahi, Parimal Acharjee</i>

Poster Session Details

Session Title: Poster Session 1		Venue: KVSG
Date & Time: 19-12-2018 & 11:40-12:15		
Session Chair: Dr. Avik Bhattacharya, IITR		
Theme of the Papers: Smart Grids		
Paper ID	Paper details	
170	MPTCP based mitigation of Denial of Service (DoS) Attack in PMU Communication Networks <i>Shaik Mullapathi Farooq, Shaik Nabirasool, S. Kiran, S.M. Suhail Hussain, Taha Selim Ustun</i>	
344	A Novel Common Inverter ES Configuration in Smart Grid <i>S. W. Wamne, P. B. Balpande, S. S. Murme, P. S. Dhakate, S. Bajpai, S. P. Gawande, R. N. Nagpure, M. A. Waghmare</i>	
399	Impact of Renewable Distributed Generators in Competitive Electricity Markets Considering Economic Factors of Transmission Network <i>Gitanjali Mehta, Vinod Kumar Yadav</i>	
456	Control and Stability Analysis of DC Micro-grids with Constant Power Loads with Source Disturbances <i>Ginbar Ensermu, Avik Bhattacharya</i>	
490	Dynamic Energy Management on Smart Micro Grid along with Generation Control <i>Soubhagya K, Prasanna Vadana D, Sasi K Kottayil</i>	
723	Power Hardware in Loop based experimentation of DFIG wind system integrated to isolated DC microgrid <i>Gururaj Mirle Vishwanath, Narayana Prasad Padhy</i>	
1078	Network Theory Based Power Grid Criticality Assessment <i>A. B. M. Nasiruzzaman, M. N. Akter, M. A. Mahmud, H. R. Pota</i>	
1082	Evaluating the Stability Impact of the Interconnecting Tie-Line Between Coupled Neighboring Microgrids <i>Farhad Shahnai, Julius Susanto, Md Apel Mahmud</i>	
106	Back-stepping sliding mode control for transient Voltage control in a standalone power generation System: An experimental analysis <i>Asit Mohanty, Meera Viswavandya, Prakash K Ray, Sthitapragyan Mohanty</i>	
63	Electric Conversion of a Polluting Gasoline Vehicle in an Electric Vehicle and its Performance and Drive Cycle Analysis <i>Robindro Lairenlakpam, G.D. Thakre, Poonam Gupta, Yograj Singh, Praveen Kumar</i>	
Theme of the Papers: Transportation		

139	A Probabilistic Approach for DG with Electric Vehicles <i>Sulabh Sachan, Nand Kishor</i>
307	Design of a Universal Wireless Charging System for Mobile and Laptop Applications <i>Thota Venkata Pruthvi, Merugu Kavitha, Phaneendra Babu Bobba, D Mohan Reddy</i>
308	A Novel V2V Charging Method Addressing the Last Mile Connectivity <i>Sai Krishna Vempalli, Deepa K, Prabhakar G.</i>
342	A Large Signal Dynamic Model of Loosely Coupled IPT System for EV Based on Laplace Phasor Transform <i>V. Sooraj, J.L. Febin Daya</i>
381	Ultracapacitor Aided Performance Enhancement of Battery Powered Electric Vehicles <i>N. Saravanan, Dr. S. Hosimin Thilagar</i>
431	Z-Source Dual Active Bridge Bidirectional AC-DC Converter for electric vehicle applications <i>J. Srijeeth, Vignesh Chennai Thiagarajan, S.R. Mohanrajan</i>
611	Control Methods of Sine-Cosine Motor for Space Application <i>Sreejith M R, Smitha Krishnan, Sajeev Kumar A, Harikrishnan A, Ravichandran MH, Sadasivan Achari V T</i>
747	Optimal Power Management of Multiple Battery Units by Power Converter System in Electric Vehicle <i>Priyanka Jangir, Venu Sangwan, Rajesh Kumar, Akshay Kumar Rathore</i>
1010	Charging Coordination of Plug-in Electric Vehicle for Congestion Management in Distribution System Integrated with Renewable Energy Sources <i>Subhasish Deb, Pratik Harsh, Jajna Prasad Sahoo, Arup Kumar Goswami</i>
305	A Laboratory Scale Test-Bed for Demonstrating and Validating Smart Grid Concepts <i>Hari Kumar R, Mayadevi N, Mini V.P, S. Ushakumari</i>

Session Title: Poster Session 2		Venue: KVSG
Date & Time: 19-12-2018 & 16:10-16:45		
Session Chair: Dr. Jaya Prakash P, GCE, Kannur		
Theme of the Papers: Electric Machines		
Paper ID	Paper details	
76	An Odd number of Pole Pairs to Minimize Cogging Torque in Permanent Magnet Machines with Mechanical Symmetry Preserved <i>Dwaipayan Barman, Vikram Roy Chowdhury</i>	

113	Investigations of Lamination Materials and Rotor Slot Area of Induction Motor with Improved Performance <i>M. Sundaram, M Mohan Raj, J. Joe Brislin, P. Varunraj</i>
168	Integrated electronic units for innovative compact induction machines <i>Grachev Pavel Yurievich, Tabachinskiy Aleksey Sergeevich, Kanagavel Pitchai</i>
173	Encoder-less Field-Oriented Control of PMSM Drive using Adaptive Observer <i>Subhankar Padhy, Chandrasekaran Subramanian, Zakir Hussian</i>
251	Design, Modeling and Analysis of Dual Rotor Axial Flux Induction Motor <i>Durgesh Kumar Banchhor, Ashwin Dhabale</i>
298	Condition Monitoring of Breather for Transformer Health Assessment <i>Gajanan C. Jaiswal, Makarand Sudhakar Ballal, M. M. Renge</i>
476	Design and Development of High Efficiency Induction Motor for PV Array Fed Water Pumping <i>Khusro Khan, Saurabh Shukla, Bhim Singh</i>
526	Comparison of Coreless and Soft Magnetic Composite Core Axial Flux Permanent Magnet Generators for Locally Manufactured Pico-Hydro Plants <i>Kostas Latoufis, Aleksandros Konstantinidis, Stamatia Gkiala-Fikari, Nikos Hatzigiorgiou</i>
527	Performance Assessment of Coreless Permanent Magnet Synchronous Motors for Position holding Mechanism for Spacecraft Applications <i>Ravichandran M H, Venkatakirthiga Murali, Sadasivan Achari VT, Joseph C C</i>
554	Torque ripple reduction in unsymmetrical two phase induction motor using unbalanced supply voltages <i>Paluru Naga Gangadhar, Durgesh Kumar Banchhor, Ashwin Dhabale</i>
815	Improvement of Current Transformer Accuracy by Digital Compensation Technique <i>Makarand S. Ballal, Manish G. Wath, H.M. Suryawanshi, B. Venkatesh</i>
868	Distributed Short-Pitch Winding for Multi-Phase Pole-Phase Modulated Induction Motor Drives <i>B Prathap Reddy, Sivakumar Keerthipati</i>
872	Non Saliency of Interior Permanent Magnet Hybrid Excitation Machine <i>Uday Kumar Mudhigollam, Umakanta Choudhury, Kamalesh Hatua</i>
897	Incipient Fault Diagnosis of Transformer by DGA Using Fuzzy Logic <i>Sandip Apte, Rahul Somalwar, Ashwini Wajirabadkar</i>
986	Modelling and Detection of Stator Incipient Open Circuit Fault in Three-Phase Induction Motor <i>Rajnish Chawla, Akhil Vinayak B, Dr. Jagadanand G</i>

1032	Design and FEM validation of Double Sided Axial Flux Switched Reluctance Motor <i>Subhashis Sarkar, Devraj Roy, Mainak Sengupta</i>
Theme of the Papers: Power Quality	
24	A Novel Application of Salp Swarm Algorithm in Load Frequency Control of Multi-Area Power System <i>Sandhya Kumari, Gauri Shankar</i>
38	Optimal Sizing and Allocation of Capacitors in Radial Distribution Systems using Sine Cosine Algorithm <i>Saubhagya Ranjan Biswal, Gauri Shankar</i>
39	Optimal Site and Size of DG with different Load Models using Cuckoo Search Algorithm <i>Ram Prakash, B. Lokeshgupta, S Sivasubramani</i>
56	Analysis of Different Types of Voltage Sag and Its Effects on Adjustable Speed Drive <i>Anurag Khergade, R. J. Satputaley, Shivam Garg, Sanghratna Tembhekar</i>
92	Indian Experience Of HVDC Event Analysis Using PMU Data <i>Amit R. Kulkarni, Makrand S.Ballal</i>
120	Improvement of Power Quality using Advanced Artificial Neural Network Algorithm <i>Soumya Ranjan Das, Prakash. K. Ray, Asit Mohanty</i>
182	A New Interactive Control Algorithm of DSTATCOM for Power Quality Improvement <i>Hareesh Myneni, Siva Kumar Ganjikunta,</i>
221	Design, Modelling and Nonlinear Control of SSSC to enhance Power Flow in IEEE 5 bus system <i>Parvathy. S, K.C Sindhu Thampatty, T.N Padmanabhan Nambiar</i>
277	An Advanced Model Predictive Controller for Grid-Tied Four-Leg Multilevel Inverters <i>Soumya Ranjan Mohapatra, Vivek Agarwal</i>
349	Vector Based Analysis for Design of Single Phase SRF Controller in Dynamic Voltage Restorer <i>D. N. Katole, M. B. Daigavane, S. P. Gawande, P. M. Daigavane</i>

Session Title: Poster Session 3		Venue: KVSG
Date & Time: 20-12-2018 & 11:40-12:15		
Session Chair: Dr. R D Kulkarni, BARC		
Theme of the Papers: Renewable Energy		
Paper ID	Paper details	
175	Solar Photo Voltaic Based Power Supply for a Cyber Physical System	

	<i>Gowtham R, Jisma M, Sasi K Kottayil</i>
291	Hysteresis Current Controllers for Grid Connected Inverter: Review and Experimental Implementation <i>Jitendra Kumar Singh, Ranjan K Behera,</i>
292	Reconfigurable solar converter with inverter, chopper and rectifier operation for residential PV applications <i>Jithin S, Roykumar M.</i>
334	Optimization of Capacitor for Piezoelectric Energy Harvesting <i>Namrata Mendiratta, Geetanjali Singh, Neela Chatteraj, Sudip Kundu</i>
414	A Practical Approach of Active Cell Balancing in a Battery Management System <i>Saurabh Shah, Meera Murali, Priyanka Gandhi</i>
418	Optimal Generation Scheduling for Wind, Solar and Thermal Power Considering Grid Security Constraints <i>Nilesh K. Patel, Nitish R. Patel, Bhavik N. Suthar</i>
484	Power Balance for WTG - Solar PV Fed DC Microgrids with Battery and Supercapacitor Support <i>Sanjeev Kumar, Alok agrawal, Rajesh Gupta</i>
500	Comparison of Empirical Mode Decomposition and Wavelet Transform for Power Quality Assessment in FPGA <i>Singh Rupal H., Soumya R. Mohanty, Nand Kishor, Dushyant Kumar singh</i>
708	Design and Analysis of Renewable Energy based Generation Control in a Restructure Power System <i>Dillip K Mishra , Tapas K Panigrahi ,Asit Mohanty , Prakash K Ray , M.Viswavandya</i>
Theme of the Papers: Power Quality	
469	Control of Grid Connected Converters Under Unbalanced Grid Faults <i>Souradeep Pal, Manas Mishra, Apurva Verma, Prabir Ranjan Kasari, Bikram Das, Abanishwar Chakraborti</i>
488	Fault Management in Isolated Microgrid <i>Sindhura Gupta, Susovan Mukhopadhyay, Ambarnath Banerji, Sujit Kumar Biswas</i>
497	Detection and Analysis of Power Quality Variations for initiating control actions in DGS <i>Raghvendra Prasad Deshpande, M. S. Raviprakash</i>
648	A Novel Technique of fault detection using wavelet transform During power swing <i>Subodh Kumar Mohanty, Paresh Kumar Nayak, Shobhan Banerjee</i>
682	Power Quality Assessment of an Industrial Plant <i>Jayashree Yadav , Krishna Vasudevan, Dinesh Kumar, Paramasivam Shanmugam</i>

846	Grid-PV Array Fed Induction Motor Drive for Water Pumping <i>Saurabh Shukla, Bhim Singh</i>
847	Modelling of Logic Circuit for Enabling High Speed Auto Reclosure for EHV System <i>Devaprasad Paul, Arup Kumar Goswami, P. K. Rout, Surendra Prakash</i>
854	A Comparative Study on Propagation of Voltage Sag through different Transformer Winding Connections <i>Devaprasad Paul, Arup Kumar Goswami, Subham Kumar, Sushant Jain, Adarsh Pandey</i>

Session Title: Poster Session 4		Venue: KVSG
Date & Time: 20-12-2018 & 16:10-16:45		
Session Chair: Dr. Ananda Rao		
Theme of the Papers: Renewable Energy		
Paper ID	Paper details	
516	LCL Filter Based Solar Photovoltaic Distributed Generation System <i>Sudhansu Sekhar Das, Aurobinda Panda</i>	
519	An Intelligent Control for Synchronous Generator Based Wind-PV-Battery Microgrid System <i>Farheen Chishti, Shadab Murshid, Bhim Singh</i>	
543	Buck-Boost Buck Ccm-Dcm Converter For Pv Standalone Dc System <i>Nagarjun S, Dipankar Debnath, Chandan Chakraborty</i>	
570	Predictive Optimal Switching Vector Controlled Inverters for AC Microgrids with Overcurrent Protection Capability <i>Vedantham Lakshmi Srinivas, Bhim Singh, Sukumar Mishra</i>	
623	Ampacity Estimation for HV Submarine Power Cables installed in Saturated Seabed <i>Nishanthi Duraisamy, Abhisek Ukil</i>	
629	Design of Piezoelectric Energy Harvester Using Intelligent Optimization Techniques <i>P. Mangaiyarkarasi, P. Lakshmi</i>	
704	DC Link Voltage Control based Power Management Scheme for Standalone PV Systems <i>Shamik Bhattacharyya, Susovon Samanta</i>	
706	Modified Hysteresis Current Control for Single Phase Solar Grid-tie Z-Source Inverter <i>Roopa Viswadev, B Venkatesa Perumal, Arjun Mudlapur, Vanjari Venkata Ramana, Sukumar Mishra</i>	
710	Stability and Interaction Analysis of Input Voltage Controlled Converters for Low Voltage DC Nanogrids <i>Ashima Kulshreshtha, Anmol Ratna Saxena</i>	

743	Modified Ultracapacitor Voltage Control Loop for Battery/UC HESS <i>Mahendra Chandra Joshi, Susovon Samanta</i>
929	Hybrid Wind-Diesel Remote Area Power Systems with Hydrogen-based Energy Storage System <i>Ameen Gargoom, Enamul Haque, Sajib Saha, Aman Oo</i>
990	Development Trends and Future Prospectus of Control Systems Serving to Hydro-power Plant <i>Rupesh Kumari, Thanga Raj Chelliah, Karthik Desingu</i>
996	An Experimental Validation of single-phase AC power Generation from PV using H-bridge Inverter <i>A Narendra, Dr. Venkataramana Naik N</i>
1000	High Efficient Solar PV fed Grid Connected system <i>Rahul sharma, Vivek kumar, Shweta Sharma3, V. Karthikeyan, Kumaravel S</i>
1007	Solar based Air Conditioner with BLDC Motor and Battery Backup <i>Bikram Das, Sunanda Banerjee, Sudhangshu Kumar, Prabir Ranjan Kasari, Abanishwar Chakrabarti</i>
1015	Three-Phase Grid-connected Photovoltaic Switched Boost Inverter with Low-Voltage Ride-Through Capability <i>Pramit Nandi, Ravindranath Adda</i>
1083	Nonlinear Partial Feedback Linearizing Controller Design for PMSG-Based Wind Farms to Enhance LVRT Capabilities <i>M. A. Mahmud, T. K. Roy, K. Littras, S. N. Islam, Amanullah M. T. Oo</i>
Theme of the Papers: Industrial Drives	
27	Nonlinear Load Distribution and Drives Configuration Selection for Harmonic Mitigation as Per IEEE 519-2014 Standard <i>Pratapaditya Thakur</i>
No Show	Dual Purpose Drive - A Best Choice to Replace Legacy DC Drives <i>Eswararao Kona , Christopher Uliana</i>
249	Correcting Electric Motor Drive Speed of Plate Mill Stand in Profiled Sheet Rolling <i>V.R. Gasiyarov, A.A. Radionov, A.S. Maklakov, A.S. Karandaev, V.R. Khramshin</i>
405	Constant Switching Frequency DTC SVPWM with Reduced Common Mode Voltage for Two Level Five Phase Induction Motor Drives <i>Utkal Ranjan Muduli, Ranjan Kumar Behera</i>
457	Thermal Loading of Multi-Megawatt Medium-Voltage Power Converters Serving to Variable Speed Large Pumped Storage Units <i>Karthik Desingu, Raghu Selvaraj, Thanga Raj Chelliah, Deepak Khare</i>
524	A Novel Fault-Tolerant Converter Topology for Induction Motor Drive

	<i>Bhaskar S S Gupta Yelamarthi, Srinivasa Rao Sandepudi</i>
587	A Novel SRM Drive Employing a Buck-Boost Energy Recovery Stage <i>Arun Chithrabhanu, Krishna Vasudevan</i>
599	An Open Switch Fault Detection Strategy using Mean Voltage Prediction for Cascaded H-Bridge Multilevel Inverter <i>Anjali Anand, Akhil Vinayak B, Nithin Raj, Jagadanad G, Saly George</i>
700	Implementation of Low Cost FPGA Based Digital Modulation Techniques for the Suppression of EMI and Improvement of Power Factor in Three-Phase Grid Connected Photo-Voltaic Inverters <i>Alavanthan Rajalakshmi, Anbukumar Kavitha</i>
705	Influence Of Maximum Current Control Strategy On Torque Ripple In Bldc Motor <i>Binu K Baby, Saly George</i>
712	A Novel Algorithm for Detection and Diagnosis of Switching Faults of Three Phase Induction Motor Drive System <i>Mini V.P., Mayadevi N, Hari Kumar R., S. Ushakumari</i>
957	Design Considerations of DC-Link Capacitors in NPC Inverters for Electric Vehicles <i>Andreas Bubert, Sthitapragyan Swain, Rik W. De Doncker</i>

Session Title: Poster Session 5		Venue: KVSG
Date & Time: 21-12-2018 & 11:40-12:15		
Session Chair: Dr. Sreeju S Nair, TVS Motor		
Theme of the Papers: Industrial Drives		
Paper ID	Paper details	
865	A Design Proposal for Butter Extraction System <i>Annamalai A, Kinattingal Sundareswaran, S.P. Simon, Kevin Ark Kumar</i>	
925	Prospect of Electric Two and Three Wheelers for Hilly Region with Regenerative Capability <i>Tako Nama, Anup Kumar Gogoi, Praveen Tripathy</i>	
1033	Solar Powered BLDC motor Drive for Wide Speed Range Electric Vehicle Application <i>N. R. Raipure, R. T. Ugale , B. N. Chaudhari</i>	
45	Best Practices for Improving the Reliability of Power Electronic Assets in a large Oil and Gas Facility <i>Shaurya Tripathi, Ajit Srivastava</i>	
Theme of the Papers: Power Converter		

122	Wavelet Modulated Inverter connected WECS using Permanent Magnet Synchronous Generator <i>Archana C.P, Teena George, Jayaprakash P</i>
144	Performance of a Dual port Asymmetrical MLI with Solar and Battery using Vertical Shift SPWM <i>Sreedhar Andavarapu, Satish Kumar Gudey, Arjun Kumar Anuku</i>
180	Design and Control of Pulsed Voltage Supply for Electric Discharge Machining <i>Makarand Kane, Akshay Khadse, Himanshu Bahirat, S V Kulkarni</i>
972	Multiple input interleaved boost converter for high power application <i>Nitesh Agrawal, Susovon Samanta, Subhojit Ghosh</i>
204	Investigation of Reliability Aspects of Photovoltaic Quasi Z-Source Inverter <i>D.Umarani, R.Seyezhai</i>
212	Comparison of Si and GaN Power Devices Based SMPS for Satellite Application <i>Bhanu Teja Vankayalapati, Arnab Sarkar, Rajender Nune, Sandeep Anand, Yogesh Singh Chauhan</i>
214	Single-Phase to Three-Phase Power Converter with Reduced DC-Link Voltage Ripple and Grid Current Harmonics <i>Anup Kumar, Mohan V. Aware, B.S. Umre</i>
231	High voltage gain qZSI with low inrush current <i>Dave Heema Bharatkumar, Dheerendra Singh, Hari Om Bansal</i>
232	Design, Control and Implementation of Energy Harvester Interface for Net Zero Energy Building Environment <i>Ramesh P, Aby Joseph, Narayanan AM</i>
313	Buck-Boost Inverter Functionality of Two-Phase Semi-Z-Source Converter <i>Remya V K, P.Parthiban, Ansal V, Avinash Nandakumar</i>
317	Modelling and Control of High Step-Up Gain Multi-Phase Interleaved Coupled Inductor Boost Converter <i>Meghna A. Vaghela, Mahmadasraf A. Mulla</i>
332	Generation of Switching Pulses for Three-Phase Switched Boost Inverter using Space Vector Modulation <i>Pramit Nandi, Ravindranath Adda</i>
336	Performance Comparison of Five-phase Three-level NPC to Five-phase Two-level Voltage Source Inverter <i>Bheemaiah Ch, Utkal Ranjan Muduli, Ranjan Kumar Behera</i>
345	Time Domain Analysis of Isolated Buck (Fly-Buck) Converter <i>Sukesh Babu Myneni, Susovon Samanta</i>

350	Harmonics Mitigation of Single-Phase Modified Source Switched Multilevel Inverter Topology Using OHSW-PWM Technique <i>Pratik kumar kar, Anurag Priyadashi, Srinivas Bhaskar Karanki</i>
363	Constant Switching Frequency State Feedback Control of Cascaded H bridge Multilevel Inverter with Reduced Switches <i>Ramyani Chakrabarty, Ravindranath Adda</i>
403	Selection Procedure of Resonant Tank Parameters for an SiC MOSFET based DC/DC Series Resonant Converter <i>Surja Sekhar Chakraborty, Saranya Patnala, Shekhar Bhawal, Kamalesh Hatua</i>
1035	Development of low cost electrical nerve stimulator based on a simple circuit topology <i>Tuhin Subhra Sasmal, Tanvi Gupta, Parthasarathi Sensarma</i>
412	Dual-input Single Inductor Current - Fed Isolated Soft-switched High Gain DC to DC Converter for Hybrid Energy Systems <i>Koteswara Rao Kothapalli, M.R. Ramteke, H.M. Suryawanshi, Naresh Kumar Reddi</i>
413	Improved Pulse-Width Modulation Technique for 11-level Series-Parallel Switched Hybrid Inverter <i>Pallavi Kulkarni, Uddhav Surve, Aarti Srivastava, B.B. Pimple</i>
437	L-L Converter for Fuel Cell Vehicular Power Train Application: Hardware Implementation of Primary Member of X-Y Converter Family <i>Mahajan Sagar Bhaskar, Sanjeevikumar Padmanaban, Atif Iqbal, Mohammad Meraj, Ajad Howeldar, Jassem Kamuruzzaman</i>
454	Design and Implementation of IGBT based Static Excitation System with Buck Converter <i>Tanmay Mishra, Gurunath Gurralla</i>
467	An ZVS DC-DC Synchronous Buck Regulator With Mode Changing Control Strategy For Low Voltage Applications <i>Priyanka Yussuf, Dr. Sreeraj E. S.</i>

Session Title: Poster Session 6		Venue: KVSG
Date & Time: 21-12-2018 & 16:10-16:45		
Session Chair: Dr. Arun karuppasamy & Dr. Lakshmi narasamma, IITM		
Theme of the Papers: Power Converter		
Paper ID	Paper details	
496	Harmonic Minimization in Modified PUC-5 Inverter Using Genetic Algorithm <i>Kaif Ahmad Lodi. Abdul Azeem, Mohd Tariq, Mohammad Ali, C. Bharatiraja</i>	
517	Pulse Width Modulation and SRF Based Closed-Loop Control of Stand-alone Single-phase 5L-ANPC Inverter <i>Jagath Vallabhai Missula, Ravindranath Adda, Praveen Tripathy</i>	

No Show	Modified Cascaded Half Bridge MLI with Polarity Changer <i>Ujjval. B. Vyas, S.G. Srivani</i>
644	A Double Bootstrap Gate Driving Scheme for HERIC Topology <i>Gaurav Sharma, Bhakti Joshi, Ramesh Orugnti</i>
684	Model Predictive Control of Single-Inductor Dual-Output Buck Converter <i>Kamakshi Manjari, Somanath Majhi</i>
696	A simple reduced order model for switching dynamics of Silicon Carbide MOSFET power module <i>Yash Sukhatme, Vamshi Krishna Miryala, Ganesan P, Kamalesh Hatua, Subhashish Bhattacharya</i>
713	A Zero-voltage Zero-current Transition Network for High-gain Dual Phase Interleaved Converters <i>Jyoti Prakash, Mummadi Veerachary,</i>
738	Development of High Current Thyristor Controlled Rectifier System for Nuclear Reactor Safety Studies <i>Gaurava Deep Srivastava, Rajendrakumar D.Kulkarni</i>
798	Isolated SEPIC Converter with a novel Voltage Clamp Circuit <i>Pandu Ranga Rao Somarowthu, Sunit Kumar Saxena, Deepak Bhimrao Mahajan</i>
974	Modelling of non-isolated single-input-multi-output DC-DC converter <i>Sreeshma Markkassery, Arun D. Mahindrakar, Lakshminarasamma N, Ramakrishna Pasumarthy</i>
994	A Modified New Buck-Boost Zero Voltage Switching Converter for Photo-voltaic Applications <i>M.Venmathi, V.Krishnakumar, C.Bharatiraja, V.VasanPrabhu</i>
845	Speed Regulation of DC Motor by Buck Converter <i>Rajnikant Sinha, Prabir Ranjan Kasari, Abanishwar Chakrabarti, Bikram Das, Arindam Das</i>
851	Current Density Characterization of Litz Wires used in Induction Heating Coils: A Practical Approach <i>Arun Kumar Paul</i>
871	Performance Enhancement of Synchronous Buck Converter using modified Dual mode Control Scheme <i>M.Venmathi, V.Krishnakumar, D.Indra, N.Booma</i>
876	A Robust Power Control Scheme for a Dual-Input Single-Output converter with a Standalone Solar PV System <i>Dibyaraj Krishna Behera, Anand I, B. Malakonda reddy, S. Senthilkumar</i>
903	Isolated Dual Boost Converter: Controller Design using Affine Parameterisation <i>Akshatha S, Rupali Vinayak, B. G. Fernandes</i>

930	Robustness Analysis of H_{∞} Controller for Feedback Linearized Model of Grid Connected Inverter <i>Md Rasel Mahmud, H. R Pota</i>
934	A New Step-up Balancing Circuit for Neutral-Point-Clamped Multilevel Inverter for Photovoltaic Applications <i>Amir Taghvaie, Md Enamul Haque, Sajeeb Saha, Md Apel Mahmud</i>
944	Enhancing Power Factor and Efficiency of Three Phase Induction Motor Drive using Single Main PWM Switch and Three Auxiliary Switches <i>Komal Ambhorkar, Ashwani Kumar Rana, Dr. D. R. Tutakne</i>
951	A Comparative Study of Different Control strategies for Isolated Buck (Fly-Buck) Converter <i>Sukesh Babu Myneni, Susovon Samanta</i>
956	Design and Control of Battery Embedded Fourth Order Boost Converter <i>Deepak Kumar, Anmol Ratna Saxena</i>