

International Conference on POWER, INSUMENTATION, CONTROL and COMPUTING Engineering - PICC 2015

09 - 11 December 2015

Scientific Program and Schedule of Presentations

Venue: Electrical Seminar Hall A

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| Invited Talk | "Intelligent Instrumentation" , Dr. Ganapati Panda, IIT Bhuvanesar | 01.30 PM - 02.30 PM |
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| Day 1, 09-12-2015 | Oral Presentation | Session I |
|--------------------------|--------------------------|------------------|

| Paper ID | Presenting Author | Paper Title | Time |
|----------|-------------------|--|--------------------|
| 56 | Jim Harley Jose | A Positive Output Buck Boost Converter Combining KY And SR-Buck Converters | 02.30 PM -02.45 PM |
| 62 | Farhath K P | Transformerless High Step-up dc-dc Cascode Converter with Maximum Power Point Tracking | 02.45 PM -03.00 PM |
| 64 | Aleena Rose Peter | Implementation of Closed Loop Model of Modified Interleaved Buck Converter | 03.00 PM -03.15 PM |
| 159 | Anasudheen P | Negative to positive voltage conversion cuk converter with high boost capability | 03.15 PM -03.30 PM |

Tea Break, 03.30 PM - 03.45 PM

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| Day 1, 09-12-2015 | Oral Presentation | Session II |
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| Paper ID | Presenting Author | Paper Title | Time |
|----------|-------------------------|--|---------------------|
| 161 | Fathima Hazza | Open Loop Analysis of a Single Stage Power Factor Correction (SSPFC) Converter with Asymmetrical PWM | 03.45 PM - 04.00 PM |
| 179 | Sebastian Varghese | Implementation of a High Step-Down Single Switch AC-DC Converter using Integrated Buck Buck-Boost Topology | 04.00 PM - 04.15 PM |
| 204 | Reshma K K | ZVS High - Frequency Series Resonant Inverter for Induction Heating Applications | 04.15 PM - 04.30 PM |
| 211 | Harsha Kalladath Valapp | Closed loop control of single stage step-up/step-down dc-ac converter | 04.30 PM - 04.45 PM |
| 266 | Viswan Vidya | Simulation and Performance Comparison of Silicon and Silicon Carbide Based DC-DC Buck Boost Converter using LT SPICE | 04.45 PM - 05:00 PM |

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| Day 2, 10-12-2015 | Oral Presentation | Session III |
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| Paper ID | Presenting Author | Paper Title | Time |
|----------|-------------------|---|---------------------|
| 278 | Praveen Joseph | Review of Current Control Strategies for a Vector Controlled Three Phase UPF Rect | 10.30 AM - 10.45 AM |
| 359 | Anoop K | A Novel control method for Voltage Regulation and Island Detection of a DC Microgrid connected photo voltaic converter system | 10.45 AM - 11.00 AM |
| 361 | Lisy E.R. | Sliding Mode Controller for Dual Input Buck Boost Converter | 11.00 AM - 11.15 AM |

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| 370 | Preetha K P | Performance Comparison of Hysteresis and Resonant Current Controllers for a Multifunctional Grid Connected Inverter | 11.15 AM - 11.30 AM |
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Tea Break, 11.30 AM - 11.45 AM

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| Day 2, 10-12-2015 | Oral Presentation | Session IV |
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| Paper ID | Presenting Author | Paper Title | Time |
|----------|-------------------|--|-----------------------|
| 435 | Suhara E M | Voltage Oriented Control of Three Phase PWM Rectifier with Bus Clamped Space Vector PWM | 11.45 AM - 12.00 Noon |
| 497 | Kiran S | Novel Approach for Harmonic Reduction with Random PWM Technique for Multilevel Inverters | 12.00 Noon - 12.15 PM |
| 503 | Meenu Rose | Performance Analysis of a Single-Stage Single-Switch AC/DC Converter for Power Factor Correction | 12.15 PM - 12.30 PM |
| 543 | Dawn Kurian | Three Phase Inverter With Reduced Number of Switches for Renewable Energy Sources in Microgrid | 12.30 PM - 12.45 PM |

Lunch, 12.45 PM - 01-30 PM

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| Invited Talk | "Energy: Research, Development and Challenges" Dr. R. Sreeram Kumar, King Abdul Aziz University, Jeddah | 01.30 PM - 02.30 PM |
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| Day 2, 10-12-2015 | Oral Presentation | Session V |
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| Paper ID | Presenting Author | Paper Title | Time |
|----------|-------------------|--|---------------------|
| 246 | Jones Chacko | Performance Analysis of Three Layer Solar Panel Arrangement with Tracking System | 02.30 PM - 02.45 PM |
| 247 | Sreejil Raju | Power System Stability Improvement Of Wind Farm Fed To A Multi-Machine System By Using Statcom | 02.45 PM - 03.00 PM |
| 267 | Sumi Soman | An Effective Forced Islanding and Load Shedding Scheme to Prevent Blackout | 03.00 PM - 03.15 PM |
| 297 | Binu Prasad | Modeling, Operation and Control of a Hybrid AC/DC Microgrid | 03.15 PM - 03.30 PM |

Tea Break, 03.30 PM - 03.45 PM

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| Day 2, 10-12-2015 | Oral Presentation | Session VI |
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| Paper ID | Presenting Author | Paper Title | Time |
|----------|--------------------|--|---------------------|
| 349 | Visakhan Rajendran | Comparative study of PSS and FACTS-POD for power system performance enhancement | 03.45 PM - 04.00 PM |
| 358 | Maya N | Optimal Integration of Photo Voltaic Sources in Unbalanced Distribution System using Reinforcement Learning | 04.00 PM - 04.15 PM |
| 498 | Sujith S | Reducing the active power from diesel generator during post high wind transient period using Flywheel Energy Storage System in isolated Wind-Diesel hybrid system for critical load applications | 04.15 PM - 04.30 PM |

| Day 3, 11-12-2015 | | Oral Presentation | Session VII |
|-------------------|-------------------|--|---------------------|
| Paper ID | Presenting Author | Paper Title | Time |
| 94 | Maya U C | Unified Model Based Classification With Fcm For Brain Tumour Segmentation | 10.30 AM - 10.45 AM |
| 100 | Mehbooba Shareef | Secret Audio Watermarking using Empirical Mode Decomposition and Chaotic Map | 10.45 AM - 11.00 AM |
| 186 | Shwetha C | Combined NLM-weiner filter based image denoising | 11.00 AM - 11.15 AM |
| 188 | Shemi P M | An Improved Method of Audio Denoising Based on Wavelet Transform | 11.15 AM - 11.30 AM |

Tea Break, 11.30 AM - 11.45 AM

| Day 3, 11-12-2015 | | Online Presentation | Session VIII |
|-------------------|-------------------|---|-----------------------|
| Paper ID | Presenting Author | Paper Title | Time |
| 330 | Ali M A | Physical Layer Improvements in 4G/5G Wireless Networks Through Link Adaptation Techniques | 11.45 AM - 12.00 Noon |
| 352 | Shehnaz M | An Object Recognition Algorithm with Structure-Guided Saliency Detection and SVM Classifier | 12.00 Noon - 12.15 PM |
| 363 | Suniya S | Acoustic Modeling Using Auditory Model Features and Convolutional Neural Network | 12.15 PM - 12.30 PM |
| 364 | Veena K V | Speaker Identification and Verification of Noisy Speech Using Multitaper MFCC and Gaussian Mixture Models | 12.30 PM - 12.45 PM |
| 708 | Leena Timothy | Combined Recurrence and Cross Recurrence Quantification of MCI EEG | 12.45 PM - 01:00 PM |

Venue: Electrical Seminar Hall B

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|---------------------|---|---------------------|
| Invited Talk | "Intelligent Instrumentation" , Dr. Ganapati Panda, IIT Bhuvanesar | 01.30 PM - 02.30 PM |
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| Day 1, 09-12-2015 | | Oral Presentation | Session I |
|-------------------|----------------------|--|--------------------|
| Paper ID | Presenting Author | Paper Title | Time |
| 60 | Ganesh M | A New Approach, Algorithm, Simulation And Experimental Verification For Automatic Demand Side Management | 02.30 PM -02.45 PM |
| 74 | Shibily Joseph | Stream Computing Framework for Outage Detection in Smart Grid | 02.45 PM -03.00 PM |
| 105 | Indu John | Voltage Control And Maximum Power Tracking Of DFIG Based Wind Power Generator | 03.00 PM -03.15 PM |
| 115 | Amrutha Maria Mathew | Assessment of Demand Response Capability with Thermostatic loads in Residential Sector | 03.15 PM -03.30 PM |

Tea Break, 03.30 PM - 03.45 PM

| Day 1, 09-12-2015 | | Oral Presentation | Session II |
|-------------------|--|-------------------|------------|
|-------------------|--|-------------------|------------|

| Paper ID | Presenting Author | Paper Title | Time |
|----------|--------------------|--|---------------------|
| 119 | Indu V | A Hybrid Photovoltaic and Battery Energy Storage System with P-Q and V-f Control Strategies in Microgrid | 03.45 PM - 04.00 PM |
| 132 | Vishakan Rajendran | Analysis of power oscillation damping capability of STATCOM-POD and optimal placement of PMUs in IEEE-14 bus system | 04.00 PM - 04.15 PM |
| 137 | Vivek Prasad | Voltage Compensation in a grid connected hybrid system using Dynamic Voltage Restorer | 04.15 PM - 04.30 PM |
| 151 | Parvathy Nair | Power Quality Improvement in Distribution Networks containing Distributed Energy Resources using Unified Power Quality Conditioner | 04.30 PM - 04.45 PM |
| 152 | ARCHANA C | Power Quality improvement using Self-Supported Dynamic Voltage Restorer (DVR) in Distribution System | 04.45 PM - 05:00 PM |

| Day 2, 10-12-2015 | | Oral Presentation | Session III |
|-------------------|-------------------|--|---------------------|
| Paper ID | Presenting Author | Paper Title | Time |
| 153 | Indu P S | Frequency Regulation of an Isolated Hybrid Power System with Superconducting Magnetic Energy Storage | 10.30 AM - 10.45 AM |
| 173 | Roshith Pulikkal | PV Supported DSTATCOM Using Icos Φ Controller | 10.45 AM - 11.00 AM |
| 174 | Geethu Raj | P-Q theory based Shunt Active Power Filter for power quality improvement under ideal and non-ideal grid voltage conditions | 11.00 AM - 11.15 AM |
| 183 | T P Vishnu | Power System State Estimation and Bad Data Analysis Using Weighted Least Square Method | 11.15 AM - 11.30 AM |

Tea Break, 11.30 AM - 11.45 AM

| Day 2, 10-12-2015 | | Oral Presentation | Session IV |
|-------------------|-------------------|--|-----------------------|
| Paper ID | Presenting Author | Paper Title | Time |
| 187 | Sari K P | Enhancement Of HvdC Transmission System Stability Using Bidirectional Buck Boost Inverter | 11.45 AM - 12.00 Noon |
| 197 | Hridya R | Comparative Study of Voltage Stability Enhancement of a Grid and Loss Reduction Using STATCOM and SSSC | 12.00 Noon - 12.15 PM |
| 220 | Namitha S | Comparative Analysis of Different Predictive Controllers on DSTATCOM for Power Quality Improvement | 12.15 PM - 12.30 PM |
| 228 | Jeena Thomas | An Efficient Partial Feedback Linearization Current Controller for Grid Connected Photovoltaic System | 12.30 PM - 12.45 PM |

Lunch, 12.45 PM - 01-30 PM

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| Invited Talk | "Energy: Research, Development and Challenges" Dr. R. Sreeram Kumar, King Abdul Aziz University, Jeddah | 01.30 PM - 02.30 PM |
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| Day 2, 10-12-2015 | Oral Presentation | Session V |
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| Paper ID | Presenting Author | Paper Title | Time |
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| 616 | Anantha Keshava Irodi | Active Overcurrent Protection Schemes in Bridge Inverters Operating Under Shoot-through conditions | 02.30 PM - 02.45 PM |
| 301 | Ashfak C | DTC of Four Switch Three Phase Inverter Fed Induction Motor Drive Using Artificial Neural Network | 02.45 PM - 03.00 PM |
| 344 | Pradeep K Bharathan | Automatic Load Transfer in Electrical Power System (In Ring Electrical Network) | 03.00 PM - 03.15 PM |
| 347 | Hrida R | Analysis of Voltage Stability Enhancement of a Grid and Loss Reduction Using Series FACTS Controllers | 03.15 PM - 03.30 PM |

Tea Break, 03.30 PM - 03.45 PM

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| Day 2, 10-12-2015 | Oral Presentation | Session VI |
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| Paper ID | Presenting Author | Paper Title | Time |
|----------|-------------------|--|---------------------|
| 507 | Divya S | Performance Of DFIG Wind Turbine With Speed Tracking Control Under Various Faults | 03.45 PM - 04.00 PM |
| 512 | Preet Lata | Issues of Concerns in Power System Reliability | 04.00 PM - 04.15 PM |
| 617 | Sunil Nangrani | Identification of most vulnerable line for divergent trend of power flow using Lyapunov Exponent | 04.15 PM - 04.30 PM |

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| Day 3, 11-12-2015 | Oral Presentation | Session VII |
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| Paper ID | Presenting Author | Paper Title | Time |
|----------|-------------------|--|---------------------|
| 10 | Kishore Babu | Suboptimal Control of Singularly Perturbed Multiparameter Discrete Control System | 10.30 AM - 10.45 AM |
| 88 | Arun Prasad K.M. | Fuzzy Sliding Mode Control of a Permanent Magnet Synchronous Motor with Two Different Fuzzy Membership Functions | 10.45 AM - 11.00 AM |
| 403 | Jerin Jose | Fuzzy Logic Based Control of Marine Boiler System | 11.00 AM - 11.15 AM |
| 624 | Sreekanth M | Modeling and control of SMA helical spring actuated unconventional locomotion systems | 11.15 AM - 11.30 AM |

Tea Break, 11.30 AM - 11.45 AM

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| Day 3, 11-12-2015 | Oral Presentation | Session VIII |
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| Paper ID | Presenting Author | Paper Title | Time |
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| 353 | Adnan Ibrahim Tharayil | GSM Based Digital Door Lock Security System | 11.45 AM - 12.00 Noon |

| Day 3, 11-12-2015 | | Online Presentation | Session VIII |
|-------------------|----------------|--|-----------------------|
| 305 | Mahdi Bayati | A Novel Technique for Optimization of Power Systems Implemented in Simulink (Case Study: Multi-Area Frequency Control) | 12.00 Noon - 12.15 PM |
| 306 | Mahdi Bayati | Control of EV/PHEV Bidirectional Battery Chargers in AC Microgrids | 12.15 PM - 12.30 PM |
| 37 | Sergei Ohulkov | Semiconductor converter for field magnets of hydromounts with a magnetorheological | 12.30PM - 12.45 PM |