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| **DAY – 2 // 15.12.2018  09:00 am to 10:15 am // Session - I** | |
| **TRACK 1 - WAPS and WAMS : // Venue : A11** | |
| **Paper ID** | **Title of the Paper** |
| 1570454585 | A Smart Demand Response Management Scheme for Direct Load Control in Residential Grid *Shitikantha Dash; Ranjana Sodhi; Balwinder Sodhi* |
| 1570458114 | Multi-objective residential demand side management with game theory approach *Bhamidi Lokeshgupta; S Sivasubramani* |
| 1570458261 | Distribution-Level Synchrophasors Estimation *Kapil Chauhan; Ranjana Sodhi* |
| 1570458328 | Adaptive Relay in Microgrid - Hardware Implementation with User Interface *Vinod Vijayachandran; U Jayachandra Shenoy Udayavar* |
| 1570458352 | Black Start Exercise - Experience & Learning over past 7 years in Western Region, India *Aditya Prasad Das; Vivek Pandey; Abhimanyu Gartia; Pramod Prajapati* |

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| **TRACK 2 - Renewable Energy Systems : // Venue : A12** | |
| **Paper ID** | **Title of the Paper** |
| 1570472616 | SyRG-PV-Battery Based Standalone Microgrid with D-EPLL Based VSC Control Algorithm *Bhim Singh; Rohini Sharma; Seema Kewat* |
| 1570457544 | A New Choice based Home Energy Management System using Electric Springs *S Hari Charan Cherukuri; Saravanan B; Swarup S* |
| 1570457820 | Intelligent Charging of PEV with Priority Premium Determination for Users in Parking Station *Vinit Khemka; Pranjal Verma; Anoop Eluvathingal; Swarup S* |
| 1570458891 | Coordinated Load Flow Solution for Coupled Transmission-Distribution System Incorporating Load Modeling *Megha Gupta; Abhijit Abhyankar* |
| 1570458993 | Interruptible Load Constrained Primary Frequency Response Scheduling with Photovoltaic Generation *Jyoti Sharma; Vivek Prakash; Rohit Bhakar* |
| **TRACK 3 - Power System Stability: // Venue : A13** | |
| **Paper ID** | **Title of the Paper** |
| 1570452152 | Comparison between position-encoder and position-sensorless vector control of High Speed PMSM with Flux Weakening Operation *Renu Kadali; Krishna Kumari Narahari; D Ravi Kuma* |
| 1570457712 | Load frequency control of a single area hybrid power system by using integral and LQR based integral controllers *Rajasi Mandal; Bhavesh Patil; Kalyan Chatterje* |
| 1570458979 | Using Composite Backward Differentiation for Electromagnetic Transient Simulation *Ashwin Damle; Omprakash Nayak; Aniruddha Gole* |
| 1570466292 | Large Power System Stability Analysis Using a FOSS-based tool: SciLab/Xcos *Vikas Singh; Girisha Navada H; Shubhanga* |
| 1570467451 | Damping Enhancement for SMIB Power System Equipped with Partial Feedback Linearization AVR *Ajit Kumar* |
| **TRACK 4 - FACTs and HVDC Systems // Venue : EEE SEMINAR HALL** | |
| **Paper ID** | **Title of the Paper** |
| 1570456337 | A Simple Strategic SVCs Placement Scheme for Enhanced Voltage Stability Margin *Ranjana Sodhi; Imran Sharieff* |
| 1570456605 | Data analytics for statistical characterization of prices and empirical resource investment planning in Indian electricity market *Saranya A; Pranjal Verma; Vidyamani T; Swarup S* |
| 1570467996 | Multi-Infeed HVDC with UPFC as Ancillary Controller *Rajendra Pandey* |
| 1570468039 | PMU based Distance Protection Methodology to Avert Malfunction due to FACTS controllers *Mallikarjuna Balimidi; Anil Saggurthi; Maddikara JAYA BHARATA Reddy; Dusmanta Kumar Mohanta* |
| 1570468119 | An Exact SOCP Formulation for AC Optimal Power Flow *Naga Yasasvi Puvvada; Snehil Chandra; Abheejeet Mohapatra; S Srivastava* |
| **TRACK 5 - Cyber Security : // Venue: BARN Hall** | |
| **Paper ID** | **Title of the Paper** |
| 1570464789 | Steganography based Low Complexity Authentication Scheme for Synchrophasor Communication *SG Aditya Bhat; Anushree HN; Sarasij Das* |
| 1570468121 | Data-driven Online Detection of Replay Attacks on Wide-Area Measurement System *Kaustav Chatterjee; Shrikrishna Khaparde* |
| 1570474605 | Quality Assessment of Smart Grid Data *Asha Radhakrishnan; Sarasij Das* |
| 1570476186 | Mobile AR System using QR Code as Marker for EHV Substation Operation Management *Ayyaj Maner; Dilip Devasthale; Vikas Sonar; Rajamani Krishnamurti* |
| 1570476391 | Extraction of Data from an RS-485 enabled Multi Function Meter for Building Monitoring Systems *Sandhya Csr; Sri Vaishnavi Tirunagari; Shubhasmita Sahoo; Pradeep Kumar Yemula* |
| **DAY – 2 // 15.12.2018**  **02:30 pm to 03:45 pm // Session - II** | |
| **TRACK 1 - WAPS and WAMS : // Venue : A11** | |
| **Paper ID** | **Title of the Paper** |
| 1570458955 | Indian Experience on Impact of Leap Second in Synchrophasor Systems *Rajkumar Anumasula; Sudeep Mohanan; Harish Rathore; P K Agarwal; KVS Baba* |
| 1570459020 | Improvements in Synchronous Generator Parameter Tuning Using PMU Data *Vinoth Kumar Natarajan; Mayank Nagendran; Vivek Pandey; Chandan Kumar; Srinivas Chitturi* |
| 1570471474 | Transmission Line Back-up Protection with Unreliable PMU DataDevika Jay; Swarup S *Shalini Shalini; Subhransu Samantaray; Ankush Sharma* |
| 1570467149 | Filtering of Noisy Frequency Measurements Using Coherence between Multiple Measurements *Kaustav Dey; Anil Kulkarni* |
| 1570468566 | Adaptive Relay Setting for Protection of Distribution System with Solar PV *Priyanka Mishra; Ashok Pradhan; Prabodh Bajpai* |
| 1570441192 | Validation of Differential Phase-Angle based Microgrid Protection Scheme on RTDS Platform *Nikhil Kumar Sharma; Subhransu Samantaray* |
| **TRACK 2 - Renewable Energy Systems : // Venue : A12** | |
| **Paper ID** | **Title of the Paper** |
| 1570459025 | Integrated Intelligent Power Management Strategy (IIPMS) to optimize green energy usage in standalone microgrid *Prema V.; Uma Rao K* |
| 1570459032 | Multi-Objective optimal scheduling of electric vehicles in distribution system *Jyotsna Singh; Rajive Tiwari* |
| 1570466513 | Multi-objective bat algorithm for optimal placement and sizing of DG *Ram Prakash; Bhamidi Lokeshgupta; S Sivasubramani* |
| 1570467769 | Stochastic Unit Commitment using Two Point Estimate Method with Proliferation of Wind Power *Shruti Ranjan; Abhijit Abhyankar* |
| 1570468159 | Droop Based Dynamic Demand Response Controller for HVAC Loads *Sandip Gupta; T Ghose; Kalyan Chatterje* |
| **TRACK 3 - Power System Stability : // Venue : A13** | |
| **Paper ID** | **Title of the Paper** |
| 1570468384 | Online Updating of Synchronous Generator Linearised Model Parameters and PSS Tuning *Piyush Warhad Pande; Saikat Chakrabarti; S Srivastava* |
| 1570468530 | Introduction of Secondary Frequency Control in Indian Power System *Phanisankar Chilukuri; S R Narasimhan; N Nallarasan; Kajal Gaur; Anamika Sharma; Harish Rathour; Sushil Soonee; Kvs Baba* |
| 1570468699 | Variable Frequency Controlled Two-Load Induction Cooking System *Reddeppagari Snehalatha; Neti Vishwanathan; S Porpandiselvi* |
| 1570468803 | Estimation and Methods of Equalizing Leakage Reactance for Multi-Winding Transformers *Saumya Pandit; Ram Krishna Mishra; Gaurang Chauhan* |
| 1570468845 | An Efficient Parallel Resonant Converter for LED Lighting *Rapeti Jagadeesh; Neti Vishwanathan; S Porpandiselvi* |

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| **TRACK 4 - FACTs and HVDC Systems : // Venue : EEE SEMINAR HALL** | |
| **Paper ID** | **Title of the Paper** |
| 1570468411 | A Combined Energy and Transmission Pricing Scheme under ACOPF Framework *Shri Ram Vaishya; Vaskar Sarkar* |
| 1570468446 | Analysis for Siting and Sizing of a Small Modular Reactor - A Case Study in Canada *Bikash Poudel; Kalpesh A Joshi; Ramakrishna (Rama) Gokaraju* |
| 1570477154 | Improved Power Quality at PCC of Standalone Wind-Battery Microgrid Using Improved Normalized Sign Regressor Adaptive Control *Bhim Singh; Farheen Chishti; Shadab Murshid* |
| 1570468662 | Electric stress on the surface of conductors in an Extra High Voltage substation *Harimurugan D; Gururaj Punekar; Kishore NK* |
| 1570467349 | Solar Powered Water Pumping Station Utilizing Improved Cuk Converter Integrating to Storage System *Anjanee Mishra; Bhim Singh* |
| **DAY – 3 // 16.12.2018**  **09:00 am to 10:15 am // Session I** | |
| **TRACK 1 - WAPS and WAMS : // Venue : A11** | |
| **Paper ID** | **Title of the Paper** |
| 1570468649 | Novel usage of Synchrophasors for system improvement: An experience in Northern Grid of India *Ankit Gupta; R k Porwal; Daman Jain; Nitin Yadav; Shashank Tyagi; P K Agarwal* |
| 1570463376 | A Comparative Study between Prony and Eigensystem Realization Algorithm for Identification of Electromechanical Modes  *Niloy Sarkar; Krishna Rao; Shubhanga* |
| 1570474139 | Automatic Generation Control with Competing GENCOs- A Reinforcement Learning Based Approach *Devika Jay; Swarup S* |
| 1570475535 | A Minimalistic Approach for Wide-Area Out-of-Step Identification *YatendraBabu G v n; Nagasekhara Reddy Naguru; Vaskar Sarkar* |
| 1570476084 | A data driven denoising framework for error corrupted synchrophasor data *Tabia Ahmad; Nilanjan Senroy* |
| 1570476280 | Prosumer based Demand Response for Profitable Power Exchange between End-user and Utility *Selvan M P; Arun S L* |
| **TRACK 2 - Renewable Energy Systems : // Venue : A12** | |
| **Paper ID** | **Title of the Paper** |
| 1570467777 | Electric Vehicle Owner Preferred Smart Charge Scheduling of EV Aggregator Using PV Generation *Sharma Suman; Pranda Prasanta Gupta; Rohit Bhakar; Prerna Jain* |
| 1570467820 | Voltage Regulation of DC Microgrid by Robust Back-stepping Control Technique of Voltage Source Converter *Vibhuti Nougain; Bijaya Panigrahi* |
| 1570467908 | Apparent Power Loss Based Equivalent Model of Wind Farm Collector System *Akhilesh Gupta; Abheejeet Mohapatra; S N Singh* |
| 1570468264 | Uncertainty handling for Electric Vehicle aggregator using IGDT *Jitendra Pradhan; Pranjal Verma; Vinit Khemka; Anoop Eluvathingal; Srinivas Stp; Swarup S* |
| 1570468367 | Dynamic Overcurrent Saturation of Distributed Sources in a DC Microgrid System *Debasish Dhua; A B Shyam; Sandeep Anand; Soumya Ranjan Sahoo* |
| **TRACK 3 - Power System Stability : // Venue : A13** | |
| **Paper ID** | **Title of the Paper** |
| 1570468849 | Wavelet Transform Based PQ Event Localization Scheme for Benchmark LVAC Microgrid *Shreyasi Som; Saikat Chakrabarti; Soumya Ranjan Sahoo* |
| 1570468894 | Flower Pollination Algorithm Based Sizing and Placement of DG and D-STATCOM Simultaneously in Radial Distribution Systems *Vittal Bhat M; Manjappa N* |
| 1570474800 | A Buck-Boost Converter with DC Link Voltage Boost for Minimizing Torque Ripple in Brushless DC Motor *Rajesh K; S Durgaprasanth; Nagamani Chilakapati; G Saravana Ilango* |
| 1570475132 | Digital Compensation Methodology for the Improvement of Accuracy of Current Transformer *Makarand Ballal; Manish Wath; Venkatesh Banavath* |
| 1570475388 | Undecimated Wavelet Packet Transform Based Visualization of Time-Varying Power Quality Disturbance *Vinay Tiwari; Himanshu Sandhibigraha; Amod C. Umarikar; Trapti Jain* |
| **TRACK 4 - FACTs and HVDC Systems : // Venue : EEE SEMINAR HALL** | |
| **Paper ID** | **Title of the Paper** |
| 1570471702 | Short circuit force in an AIS with special reference to L-L and L-L-L faults *Gururaj Punekar; Sudarshan VJ* |
| 1570473799 | A novel algorithm for Optimal Reactive Power Dispatch *Ranjit Roy; Tanmay Das* |
| 1570475699 | Damping of inter-area mode oscillations by H∞ Loop shaping technique based UPFC controller *Bhavin Shah; Gopinatha Pillai; Pramod Agarwal; Hemant Raval* |
| 1570475844 | Cuckoo Search Algorithm Based Cost Minimization by Optimal DG and Capacitor Integration in Radial Distribution Systems *Suman Biswal; Arnab Ghosh; Sajjan Kumar; Niladri Chakraborty; Swapan Goswami* |
| 1570476290 | Quality Analysis of Ceramic Insulators Under Steep Front Impulse Voltage *K Marimuthu; S Vynatheya; N Vasudev; Raja Pitchaimuthu* |
| **DAY – 3 // 16.12.2018**  **12:00 noon to 01:15 pm // Session II** | |
| **TRACK 1 - WAPS and WAMS : // Venue : A11** | |
| **Paper ID** | **Title of the Paper** |
| 1570476344 | Design and Development of an Emulator for Distribution Automation Using DCS *Hanumantha Rao B; Chandan B; Krisnamurthy Manjunatha Sharma; Selvan M P* |
| 1570476572 | Recent Trends on Performance Analysis of Latency on Wide Area Technologies in Smart Grids *Gopakumar Pathirikkat; Mallikarjuna Balimidi; Maddikara JAYA BHARATA Reddy* |
| 1570476721 | A Comparative Study of PI and PDF Controllers for DVR Under Distorted Grid Conditions *Karthikeyan Anbalgan; Abhilash Deshpande Gururaj; Tejaswini A; Sweta Panda Aeshwarya; Laxmi Prasanna R* |
| 1570476980 | CoDiT: Commissioning Diagnostic Tool for WAMS Based Linear State Estimation of Power Systems *Gopal Gajjar; Minal Chougule; Shreevardhan Soman; Rajeev Gajbhiye* |
| 1570468567 | Utilization of Color Composite Satellite Image for Reliable Grid Operation *Alok Kumar; P K Agarwal; Daman Jain; Devendra Kumar; Paresh Khandelwal; Sunil Kumar Kanaujiya* |

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| **TRACK 2 - Renewable Energy Systems : // Venue : A12** | |
| **Paper ID** | **Title of the Paper** |
| 1570468369 | Sustainable Development Through Effectual Lighting Design and Solar Energy Conservation *Mihir N. Velani* |
| 1570468652 | Analysis of Active and Transactive Demand Response Strategies for Smart Residential Buildings *Vidyamani T; Swarup S* |
| 1570468905 | Energy Management in Multi-Microgrid System with Community Battery Energy Storage *Ashok M Jadhav; Yingying Zheng; Siddharth Suryanarayanan; Nita R Patne* |
| 1570456378 | A New technique to extract maximum power from wind turbine *Rakesh N; Rishikesh D; Malavya Udugula* |
| 1570473398 | Coordinated Voltage Control in LV Distribution Systems using OLTC and BESS *Akansha Jain; Tanmay Tewari; Anubrata Das; Sandeep Anand; Abheejeet Mohapatra* |
| **TRACK 3 - Power System Stability : // Venue : A13** | |
| **Paper ID** | **Title of the Paper** |
| 1570475534 | A Case Study on Load Frequency Control with Automatic Generation Control on a Two Area Network using MiPower  *Ishan Gupta; Hemanth Mavuloori* |
| 1570475852 | Model predictive control of DSTATCOM employing a single DC source cascaded H-bridge multilevel inverter in a weak distribution system *Ramyani Chakrabarty; A. Ravindranath* |
| 1570475907 | Measured Signal Based Controlled Islanding in Power Systems *Kalyani Mandadi; Kalyan Kumar* |
| 1570475967 | Modeling of Circuit Breaker for Controlled Switching Application using EMTDC/PSCAD *Utkarsh Kumar; Snigdha Tale; Soumya Panda; Ashu Verma* |
| 1570476128 | Methods for Localization of Partial Discharge Sources within Air Insulated Electrical Substation *Sourav Dhara; Chiranjib Koley; Sivaji Chakravorti* |

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| **TRACK 4 - FACTs and HVDC Systems : // Venue : EEE SEMINAR HALL** | |
| **Paper ID** | **Title of the Paper** |
| 1570476672 | Five-Level ANPC converter for PMSG based wind power system with grid power factor regulation *Jagath Vallabhai Missula; A. Ravindranath; Praveen Tripathy* |
| 1570476678 | Identification of Faults in PV Array using Maximal Overlap Discrete Wavelet Transform *Sreelakshmy J; Pradeep Boggarapu; G Saravana Ilango; Nagamani Chilakapati* |
| 1570476974 | A power flow controller for a Standalone solar PV system employing a three port Luo converter *Diksha Agarwal; Diptisikha Dash; Snigdha Dalai; Anand I; Senthil S* |
| 1570468544 | Optimization Layer for Inter State Generation Schedules in India *Phanisankar Chilukuri; Kajal Gaur; Sushil Soonee; S R Narasimhan; N Nallarasan; Kvs Baba* |
| 1570469409 | Expanding the Ambit of Ancillary Services in India -Implementation and Challenges *Anupam Kumar; K V N Pawan Kumar; Goutam Chakraborty; Sudhansu Barpanda; Kvs Baba; Samir Chandra Saxena;*  *P K Agarwal* |
| **TRACK 4 - FACTs and HVDC Systems : // Venue : SENATE HALL** | |
| **Paper ID** | **Title of the Paper** |
| 1570476374 | Measurement of Radio Interference emission around +/-100 MVAR STATCOM Valve building near 400/220 kV substation *P Rajamani; K Urukundu; Pradeep Nirgude* |
| 1570476410 | An Intuitive Approach to Fit a frequency Dependent Equivalent Circuit for Transmission Line Models *Gurunath Gurrala; Aeishwarya Umesh Baviskar; Kiran Kumar Challa* |
| 1570476700 | Optimal Strategy for ATC Enhancement and Assessment in presence of FACTS devices and Renewable Generation *Devesh Shukla; Singh S p; Soumya Mohanty* |
| 1570477273 | Fuzzy Reliability Analysis of Unit Commitment Problem Considering Uncertain Outage Replacement Rate and Load Representation *Sourav Kumar Sahu; Dusmanta Kumar Mohanta; Maddikara JAYA BHARATA Reddy; R. Jha; Debomita Ghosh; Anant Milan Khalkho* |
| 1570484548 | Crow search algorithm based optimal dynamic performance control of SVC assisted SMIB system *Gauri Shankar; Akshay Kumar; Sudeep Kumar* |

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| **DAY – 3 // 16.12.2018**  **03:00 pm to 04:15 pm // Session III** | |
| **TRACK 1 - WAPS and WAMS : // Venue : A11** | |
| **Paper ID** | **Title of the Paper** |
| 1570475877 | Performance Evaluation of 5kWp grid connected polycrystalline Si-based Photovoltaic Plant  *Shoaib Inamdar; Shiv Kumar Singh; Ankush Sharma; Saikat Chakrabarti* |
| 1570475962 | State Estimation for DG penetrated Adaptive Distribution System during Disaster  *Kumari Sandhya; T Ghose; Kalyan Chatterje* |
| 1570476282 | Effect of Hybrid Energy Storage on Sizing of PV-Wind Standalone System using Bacteria Foraging Optimization Algorithm *Sayani Sikder; Gargi Konar; Niladri Chakraborty* |
| 1570476295 | Integration of PV array to three-phase grid using Power Electronic converters with de-coupled control *MariaJenisha Charles; N. Ammasaigounden; Anmol Agarwal* |
| 1570476298 | Experimental investigation of Distributed Maximum Power Point operation for Solar PV system *Y Nitesh; B Malakondareddy; Senthil S; Anand I* |
| **TRACK 2 - Renewable Energy Systems : // Venue : A12** | |
| **Paper ID** | **Title of the Paper** |
| 1570474210 | Influence of Ground Impedance on Unbalanced Analysis of Grid *Muralidhara V; Thukaram D; Raghunatha Ramaswamy* |
| 1570474388 | A Low Cost Distributed Solar DC Nanogrid: Design and Deployment with Remote Monitoring Unit  *Rustam Kumar; Ranjan Behera* |
| 1570474790 | Impact of Combined Operation of CVR and Energy Storage System in Distribution Grid *Shailendra Singh; Singh S p; Vijay Babu Pamishetti* |
| 1570475602 | Impact of VSG Parameters on Transient Performance of Solar PV based System *Rakesh Panda; Abheejeet Mohapatra; S Srivastava* |
| 1570475855 | Impact of Reactive Current Injection by Islanding Detection Techniques on the Voltage Quality of Distributed Generation  *Pankaj Gupta; RavinderSingh Bhatia; Dinesh Jain* |

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| **TRACK 3 - Power System Stability : // Venue : A13** | |
| **Paper ID** | **Title of the Paper** |
| 1570476611 | Dependence of Frequency Response of a STATCOM on the Magnetizing Reactance of its Interfacing Transformer *Mukesh Das; Aniruddha Gole* |
| 1570476644 | Controller Hardware-in-Loop Simulation of a Multi-Machine System using an Educational Real-time Simulator *Shashank Kumar Jain; Siri Subrahmanyam Vadlamani; G Narayanan* |
| 1570477019 | Experimental Validation of CCM and DCM Operations of Semi-Bridgeless Boost Rectifier for Power Quality Improvement in UPS System *Karthikeyan V; S Rajasekar; Kumaresan Natarajan* |
| 1570477075 | A Generalised State-Space Approach for Studying EMTP Simulation Models  *Vinay Chindu, T S; Anil Kulkarni* |
| 1570479759 | Novel Non-isolated Modified Interleaved DC-DC Converter to Integrate Ultracapacitor and Battery Sources for Electric Vehicle Application *Kumaravel S; Gangavarapu Guru kumar; Kuruva Veeranna; Karthikeyan V* |
| **TRACK 4 - FACTs and HVDC Systems : // Venue : EEE SEMINAR HALL** | |
| **Paper ID** | **Title of the Paper** |
| 1570476333 | Scheduling of Energy Storage Transportation in Power System Using Benders Decomposition Approach *Pranda Prasanta Gupta; Prerna Jain; Sharma Suman; Kailash Chand Sharma; Rohit Bhakar* |
| 1570476382 | Optimal Protection Coordination for Microgrid considering DG and Line Outages using IWO-ILP Technique *Stp Srinivas; Swarup S* |
| 1570476455 | A Unified Distributed Control Strategy for DC Microgrid with Hybrid Energy Storage Devices *Ramesh Naidu Bonu; Sherin Jose; Divyank Singh; Prabodh Bajpai* |
| 1570476502 | Performance of FCS-MPC based current controller for VSC based DG sources *T. Sathiyanarayanan; Sukumar Mishra* |
| 1570476636 | Increasing Hosting Capacity of PV Solar Systems using Smart Inverter Volt-Var Control *Rajiv Varma; Sibin Mohan; Yafet Gebremariam; Syeed Hasan* |