

# 20<sup>th</sup> National Power Systems Conference (NPSC 2018)

## ORAL PRESENTATION SCHEDULE - FINAL

<b>DAY – 2 // 15.12.2018</b>	
<b>09:00 am to 10:15 am - Session - I</b>	
<b>TRACK 1 - WAPS and WAMS : Venue - A11 Hall</b>	
<b>Paper ID</b>	<b>Title of the Paper</b>
1570454585	A Smart Demand Response Management Scheme for Direct Load Control in Residential Grid <i>Shitikantha Dash; Ranjana Sodhi; Balwinder Sodhi</i>
1570458114	Multi-objective residential demand side management with game theory approach <i>Bhamidi Lokeshgupta; S Sivasubramani</i>
1570458261	Distribution-Level Synchrophasors Estimation <i>Kapil Chauhan; Ranjana Sodhi</i>
1570458328	Adaptive Relay in Microgrid - Hardware Implementation with User Interface <i>Vinod Vijayachandran; U Jayachandra Shenoy Udayavar</i>
1570458352	Black Start Exercise - Experience & Learning over past 7 years in Western Region, India <i>Aditya Prasad Das; Vivek Pandey; Abhimanyu Gartia; Pramod Prajapati</i>
<b>TRACK 2 - Renewable Energy Systems : Venue - A12 Hall</b>	
<b>Paper ID</b>	<b>Title of the Paper</b>
1570472616	SyRG-PV-Battery Based Standalone Microgrid with D-EPLL Based VSC Control Algorithm <i>Bhim Singh; Rohini Sharma; Seema Kewat</i>
1570457544	A New Choice based Home Energy Management System using Electric Springs <i>S Hari Charan Cherukuri; Saravanan B; Swarup S</i>
1570457820	Intelligent Charging of PEV with Priority Premium Determination for Users in Parking Station <i>Vinit Khemka; Pranjal Verma; Anoop Eluvathingal; Swarup S</i>
1570458891	Coordinated Load Flow Solution for Coupled Transmission-Distribution System Incorporating Load Modeling <i>Megha Gupta; Abhijit Abhyankar</i>
1570458993	Interruptible Load Constrained Primary Frequency Response Scheduling with Photovoltaic Generation <i>Jyoti Sharma; Vivek Prakash; Rohit Bhakar</i>
<b>TRACK 3 - Power System Stability and Control : Venue - A13 Hall</b>	
<b>Paper ID</b>	<b>Title of the Paper</b>
1570452152	Comparison between position-encoder and position-sensorless vector control of High Speed PMSM with Flux Weakening Operation <i>Renu Kadali; Krishna Kumari Narahari; D Ravi Kuma</i>
1570457712	Load frequency control of a single area hybrid power system by using integral and LQR based integral controllers <i>Rajasi Mandal; Bhavesh Patil; Kalyan Chatterje</i>
1570458979	Using Composite Backward Differentiation for Electromagnetic Transient Simulation <i>Ashwin Damle; Omprakash Nayak; Aniruddha Gole</i>
1570466292	Large Power System Stability Analysis Using a FOSS-based tool: SciLab/Xcos <i>Vikas Singh; Girisha Navada H; Shubhanga</i>
1570467451	Damping Enhancement for SMIB Power System Equipped with Partial Feedback Linearization AVR <i>Ajit Kumar</i>

TRACK 4 - FACTS and HVDC Systems : EEE Seminar Hall	
Paper ID	Title of the Paper
1570456337	A Simple Strategic SVCs Placement Scheme for Enhanced Voltage Stability Margin <i>Ranjana Sodhi; Imran Sharieff</i>
1570456605	Data analytics for statistical characterization of prices and empirical resource investment planning in Indian electricity market <i>Saranya A; Pranjal Verma; Vidyamani T; Swarup S</i>
1570467996	Multi-Infeed HVDC with UPFC as Ancillary Controller <i>Rajendra Pandey</i>
1570468039	PMU based Distance Protection Methodology to Avert Malfunction due to FACTS controllers <i>Mallikarjuna Balimidi; Anil Saggurthi; Maddikara JAYA BHARATA Reddy; Dushmantha Kumar Mohanta</i>
1570468119	An Exact SOCP Formulation for AC Optimal Power Flow <i>Naga Yasasvi Puvvada; Snehil Chandra; Abheejeet Mohapatra; S Srivastava</i>
TRACK 5 - Cyber Security : BARN Hall	
Paper ID	Title of the Paper
1570464789	Steganography based Low Complexity Authentication Scheme for Synchrophasor Communication <i>SG Aditya Bhat; Anushree HN; Sarasij Das</i>
1570468121	Data-driven Online Detection of Replay Attacks on Wide-Area Measurement System <i>Kaustav Chatterjee; Shrikrishna Khaparde</i>
1570474605	Quality Assessment of Smart Grid Data <i>Asha Radhakrishnan; Sarasij Das</i>
1570476186	Mobile AR System using QR Code as Marker for EHV Substation Operation Management <i>Ayyaj Maner; Dilip Devasthale; Vikas Sonar; Rajamani Krishnamurti</i>
1570476391	Extraction of Data from an RS-485 enabled Multi Function Meter for Building Monitoring Systems <i>Sandhya Csr; Sri Vaishnavi Tirunagari; Shubhasmita Sahoo; Pradeep Kumar Yemula</i>

**DAY – 2 // 15.12.2018****02:30 pm to 03:45 pm - Session - II****TRACK 1 - WAPS and WAMS : : Venue - A11 Hall**

<b>Paper ID</b>	<b>Title of the Paper</b>
1570458955	<b>Indian Experience on Impact of Leap Second in Synchrophasor Systems</b> <i>Rajkumar Anumasula; Sudeep Mohanan; Harish Rathore; P K Agarwal; Kvs Baba</i>
1570459020	Improvements in Synchronous Generator Parameter Tuning Using PMU Data <i>Vinoth Kumar Natarajan; Mayank Nagendran; Vivek Pandey; Chandan Kumar; Srinivas Chitturi</i>
1570471474	Transmission Line Back-up Protection with Unreliable PMU Data <i>Shalini Shalini; Subhransu Samantaray; Ankush Sharma</i>
1570467149	Filtering of Noisy Frequency Measurements Using Coherence between Multiple Measurements <i>Kaustav Dey; Anil Kulkarni</i>
1570468566	Adaptive Relay Setting for Protection of Distribution System with Solar PV <i>Priyanka Mishra; Ashok Pradhan; Prabodh Bajpai</i>
1570441192	Validation of Differential Phase-Angle based Microgrid Protection Scheme on RTDS Platform <i>Nikhil Kumar Sharma; Subhransu Samantaray</i>

**TRACK 2 - Renewable Energy Systems : Venue - A12 Hall**

<b>Paper ID</b>	<b>Title of the Paper</b>
1570459025	Integrated Intelligent Power Management Strategy (IIPMS) to optimize green energy usage in standalone microgrid <i>Prema V.; Uma Rao K</i>
1570459032	Multi-Objective optimal scheduling of electric vehicles in distribution system <i>Singh; Rajive Tiwari</i>
1570466513	Multi-objective bat algorithm for optimal placement and sizing of DG <i>Ram Prakash; Bhamidi Lokeshgupta; S Sivasubramani</i>
1570467769	Stochastic Unit Commitment using Two Point Estimate Method with Proliferation of Wind Power <i>Shruti Ranjan; Abhijit Abhyankar</i>
1570468159	Droop Based Dynamic Demand Response Controller for HVAC Loads <i>Sandip Gupta; T Ghose; Kalyan Chatterje</i>

**TRACK 3 - Power System Stability and Control : Venue - A13 Hall**

Paper ID	Title of the Paper
1570468384	Online Updating of Synchronous Generator Linearised Model Parameters and PSS Tuning <i>Piyush Warhad Pande; Saikat Chakrabarti; S Srivastava</i>
1570468530	Introduction of Secondary Frequency Control in Indian Power System <i>Phanisankar Chilukuri; S R Narasimhan; N Nallarasan; Kajal Gaur; Anamika Sharma; Harish Rathour; Sushil Soonee; Kvs Baba</i>
1570468699	Variable Frequency Controlled Two-Load Induction Cooking System <i>Reddeppagari Snehalatha; Neti Vishwanathan; S Porpandiselvi</i>
1570468803	Estimation and Methods of Equalizing Leakage Reactance for Multi-Winding Transformers <i>Saumya Pandit; Ram Krishna Mishra; Gaurang Chauhan</i>
1570468845	An Efficient Parallel Resonant Converter for LED Lighting <i>Rapeti Jagadeesh; Neti Vishwanathan; S Porpandiselvi</i>

**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 <i>Shri Ram Vaishya; Vaskar Sarkar</i>
1570468446	Analysis for Siting and Sizing of a Small Modular Reactor - A Case Study in Canada <i>Bikash Poudel; Kalpesh A Joshi; Ramakrishna (Rama) Gokaraju</i>
1570477154	Improved Power Quality at PCC of Standalone Wind-Battery Microgrid Using Improved Normalized Sign Regressor Adaptive Control <i>Farheen Chishti; Shadab Murshid</i> <span style="float: right;"><i>Bhim Singh;</i></span>
1570468662	Electric stress on the surface of conductors in an Extra High Voltage substation <i>Harimurugan D; Gururaj Punekar; Kishore NK</i>
1570467349	Solar Powered Water Pumping Station Utilizing Improved Cuk Converter Integrating To Storage System <i>Mishra; Bhim Singh</i> <span style="float: right;"><i>Anjane</i></span>

**DAY – 3 // 16.12.2018****09:00 am to 10:15 am - Session - I****TRACK 1 - WAPS and WAMS : Venue - A11 Hall**

<b>Paper ID</b>	<b>Title of the Paper</b>
1570468649	Novel usage of Synchrophasors for system improvement: An experience in Northern Grid of India <i>Ankit Gupta; R k Porwal; Daman Jain; Nitin Yadav; Shashank Tyagi; P K Agarwal</i>
1570463376	A Comparative Study between Prony and Eigensystem Realization Algorithm for Identification of Electromechanical Modes <i>Niloy Sarkar; Krishna Rao; Shubhanga</i>
1570474139	Automatic Generation Control with Competing GENCOs- A Reinforcement Learning Based Approach <i>Devika Jay; Swarup S</i>
1570475535	A Minimalistic Approach for Wide-Area Out-of-Step Identification <i>YatendraBabu G v n; Nagasekhara Reddy Naguru; Vaskar Sarkar</i>
1570476084	A data driven denoising framework for error corrupted synchrophasor data <i>Tabia Ahmad; Nilanjan Senroy</i>
1570476280	Prosumer based Demand Response for Profitable Power Exchange between End-user and Utility <i>Selvan M P; Arun S L</i>

**TRACK 2 - Renewable Energy Systems : Venue - A12 Hall**

<b>Paper ID</b>	<b>Title of the Paper</b>
1570467777	Electric Vehicle Owner Preferred Smart Charge Scheduling of EV Aggregator Using PV Generation <i>Sharma Suman; Pranda Prasanta Gupta; Rohit Bhakar; Prerna Jain</i>
1570467820	Voltage Regulation of DC Microgrid by Robust Back-stepping Control Technique of Voltage Source Converter <i>Vibhuti Nougain; Bijaya Panigrahi</i>
1570467908	Apparent Power Loss Based Equivalent Model of Wind Farm Collector System <i>Akhilesh Gupta; Abheejeet Mohapatra; S N Singh</i>
1570468264	Uncertainty handling for Electric Vehicle aggregator using IGDT <i>Jitendra Pradhan; Pranjal Verma; Vinit Khemka; Anoop Eluvathingal; Srinivas Stp; Swarup S</i>
1570468367	Dynamic Overcurrent Saturation of Distributed Sources in a DC Microgrid System <i>Debasish Dhua; A B Shyam; Sandeep Anand; Soumya Ranjan Sahoo</i>

**TRACK 3 - Power System Stability and Control : Venue - A13 Hall**

Paper ID	Title of the Paper
1570468849	Wavelet Transform Based PQ Event Localization Scheme for Benchmark LVAC Microgrid <i>Shreyasi Som; Saikat Chakrabarti; Soumya Ranjan Sahoo</i>
1570468894	Flower Pollination Algorithm Based Sizing and Placement of DG and D-STATCOM Simultaneously in Radial Distribution Systems <i>Vittal Bhat M; Manjappa N</i>
1570474800	A Buck-Boost Converter with DC Link Voltage Boost for Minimizing Torque Ripple in Brushless DC Motor <i>Rajesh K; S Durgaprasanth; Nagamani Chilakapati; G Saravana Ilango</i>
1570475132	Digital Compensation Methodology for the Improvement of Accuracy of Current Transformer <i>Makarand Ballal; Manish Wath; Venkatesh Banavath</i>
1570475388	Undecimated Wavelet Packet Transform Based Visualization of Time-Varying Power Quality Disturbance <i>Vinay Tiwari; Himanshu Sandhibigraha; Amod C. Umarikar; Trapti Jain</i>

**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 <i>Gururaj Puneekar; Sudarshan VJ</i>
1570473799	A novel algorithm for Optimal Reactive Power Dispatch <i>Ranjit Roy; Tanmay Das</i>
1570475699	Damping of inter-area mode oscillations by H $\infty$ Loop shaping technique based UPFC controller <i>Bhavin Shah; Gopinatha Pillai; Pramod Agarwal; Hemant Raval</i>
1570475844	Cuckoo Search Algorithm Based Cost Minimization by Optimal DG and Capacitor Integration in Radial Distribution Systems <i>Suman Biswal; Arnab Ghosh; Sajjan Kumar; Niladri Chakraborty; Swapan Goswami</i>
1570476290	Quality Analysis of Ceramic Insulators Under Steep Front Impulse Voltage <i>K Marimuthu; S Vynatheya; N Vasudev; Raja Pitchaimuthu</i>

**DAY – 3 // 16.12.2018****12:00 noon to 01:15 pm - Session - II****TRACK 1 - WAPS and WAMS : Venue - A11 Hall**

<b>Paper ID</b>	<b>Title of the Paper</b>
1570476344	Design and Development of an Emulator for Distribution Automation Using DCS <i>Hanumantha Rao B; Chandan B; Krisnamurthy Manjunatha Sharma; Selvan M P</i>
1570476572	Recent Trends on Performance Analysis of Latency on Wide Area Technologies in Smart Grids <i>Gopakumar Pathirikkat; Mallikarjuna Balimidi; Maddikara JAYA BHARATA Reddy</i>
1570476721	A Comparative Study of PI and PDF Controllers for DVR Under Distorted Grid Conditions <i>Karthikeyan Anbalagan; Abhilash Deshpande Gururaj; Tejaswini A; Sweta Panda Aeshwarya; Laxmi Prasanna R</i>
1570476980	CoDiT: Commissioning Diagnostic Tool for WAMS Based Linear State Estimation of Power Systems <i>Gopal Gajjar; Minal Chougule; Shreevardhan Soman; Rajeev Gajbhiye</i>
1570468567	Utilization of Color Composite Satellite Image for Reliable Grid Operation <i>Alok Kumar; P K Agarwal; Daman Jain; Devendra Kumar; Paresh Khandelwal; Sunil Kumar Kanaujiya</i>

**TRACK 2 - Renewable Energy Systems : Venue - A12 Hall**

<b>Paper ID</b>	<b>Title of the Paper</b>
1570468369	Sustainable Development Through Effectual Lighting Design and Solar Energy Conservation <i>Mihir N. Velani</i>
1570468652	Analysis of Active and Transactive Demand Response Strategies for Smart Residential Buildings <i>Vidyamani T; Swarup S</i>
1570468905	Energy Management in Multi-Microgrid System with Community Battery Energy Storage <i>Ashok M Jadhav; Yingying Zheng; Siddharth Suryanarayanan; Nita R Patne</i>
1570456378	A New technique to extract maximum power from wind turbine <i>N; Rishikesh D; Malavya Udugula</i> <span style="float: right;"><i>Rakesh</i></span>
1570473398	Coordinated Voltage Control in LV Distribution Systems using OLTC and BESS <i>Akansha Jain; Tanmay Tewari; Anubrata Das; Sandeep Anand; Abheejeet Mohapatra</i>

TRACK 3 - Power System Stability and Control : Venue - A13 Hall	
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 <i>Ishan Gupta; Hemanth Mavuloori</i>
1570475852	Model predictive control of DSTATCOM employing a single DC source cascaded H-bridge multilevel inverter in a weak distribution system <i>Ramyani Chakrabarty; A. Ravindranath</i>
1570475907	Measured Signal Based Controlled Islanding in Power Systems <i>Kalyani Mandadi; Kalyan Kumar</i>
1570475967	Modeling of Circuit Breaker for Controlled Switching Application using EMTDC/PSCAD <i>Utkarsh Kumar; Snigdha Tale; Soumya Panda; Ashu Verma</i>
1570476128	Methods for Localization of Partial Discharge Sources within Air Insulated Electrical Substation <i>Sourav Dhara; Chiranjib Koley; Sivaji Chakravorti</i>
TRACK 4A - 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 <i>Jagath Vallabhai Missula; A. Ravindranath; Praveen Tripathy</i>
1570476678	Identification of Faults in PV Array using Maximal Overlap Discrete Wavelet Transform <i>Sreelakshmy J; Pradeep Boggarapu; G Saravana Ilango; Nagamani Chilakapati</i>
1570476974	A power flow controller for a Standalone solar PV system employing a three port Luo converter <i>Diksha Agarwal; Diptisikha Dash; Snigdha Dalai; Anand I; Senthil S</i>
1570468544	Optimization Layer for Inter State Generation Schedules in India <i>Phanisankar Chilukuri; Kajal Gaur; Sushil Soonee; S R Narasimhan; N Nallarasani; Kvs Baba</i>
1570469409	Expanding the Ambit of Ancillary Services in India -Implementation and Challenges <i>Anupam Kumar; K V N Pawan Kumar; Goutam Chakraborty; Sudhansu Barpanda; Kvs Baba; Samir Chandra Saxena; P K Agarwal</i>
TRACK 4B - FACTS and HVDC Systems : Venue - BARN Hall	
Paper ID	Title of the Paper
1570476374	Measurement of Radio Interference emission around +/-100 MVAR STATCOM Valve building near 400/220 kV substation <i>P Rajamani; K Urukundu; Pradeep Nirgude</i>
1570476410	An Intuitive Approach to Fit a frequency Dependent Equivalent Circuit for Transmission Line Models <i>Gurunath Gurrala; Aeishwarya Umesh Baviskar; Kiran Kumar Challa</i>
1570476700	Optimal Strategy for ATC Enhancement and Assessment in presence of FACTS devices and Renewable Generation <i>Devesh Shukla; Singh S p; Soumya Mohanty</i>
1570477273	Fuzzy Reliability Analysis of Unit Commitment Problem Considering Uncertain Outage Replacement Rate and Load Representation <i>Sourav Kumar Sahu; Dusmanta Kumar Mohanta; Maddikara JAYA BHARATA Reddy; R. Jha; Debomita Ghosh; Anant Milan Khalkho</i>
1570484548	Crow search algorithm based optimal dynamic performance control of SVC assisted SMIB system <i>Gauri Shankar; Akshay Kumar; Sudeep Kumar</i>



**DAY – 3 // 16.12.2018**

**03:00 pm to 04:15 pm - Session - III**

**TRACK 1 - WAPS and WAMS : Venue - A11 Hall**

<b>Paper ID</b>	<b>Title of the Paper</b>
1570475877	Performance Evaluation of 5kWp grid connected polycrystalline Si-based Photovoltaic Plant <i>Shoaib Inamdar; Shiv Kumar Singh; Ankush Sharma; Saikat Chakrabarti</i>
1570475962	State Estimation for DG penetrated Adaptive Distribution System during Disaster <i>Kumari Sandhya; T Ghose; Kalyan Chatterje</i>
1570476282	Effect of Hybrid Energy Storage on Sizing of PV-Wind Standalone System using Bacteria Foraging Optimization Algorithm <i>Sayani Sikder; Gargi Konar; Niladri Chakraborty</i>
1570476295	Integration of PV array to three-phase grid using Power Electronic converters with de-coupled control <i>MariaJenisha Charles; N. Ammasaigounden; Anmol Agarwal</i>
1570476298	Experimental investigation of Distributed Maximum Power Point operation for Solar PV system <i>Y Nitesh; B Malakondareddy; Senthil S; Anand I</i>

**TRACK 2 - Renewable Energy Systems : Venue - A12 Hall**

<b>Paper ID</b>	<b>Title of the Paper</b>
1570474210	Influence of Ground Impedance on Unbalanced Analysis of Grid <i>Muralidhara V; Thukaram D; Raghunatha Ramaswamy</i>
1570474388	A Low Cost Distributed Solar DC Nanogrid: Design and Deployment with Remote Monitoring Unit <i>Rustam Kumar; Ranjan Behera</i>
1570474790	Impact of Combined Operation of CVR and Energy Storage System in Distribution Grid <i>Shailendra Singh; Singh S p; Vijay Babu Pamishetti</i>
1570475602	Impact of VSG Parameters on Transient Performance of Solar PV based System <i>Rakesh Panda; Abheejeet Mohapatra; S Srivastava</i>
1570475855	Impact of Reactive Current Injection by Islanding Detection Techniques on the Voltage Quality of Distributed Generation <i>Pankaj Gupta; RavinderSingh Bhatia; Dinesh Jain</i>

### TRACK 3 - Power System Stability and Control : Venue - A13 Hall

Paper ID	Title of the Paper
1570476611	Dependence of Frequency Response of a STATCOM on the Magnetizing Reactance of its Interfacing Transformer <i>Mukesh Das; Aniruddha Gole</i>
1570476644	Controller Hardware-in-Loop Simulation of a Multi-Machine System using an Educational Real-time Simulator <i>Shashank Kumar Jain; Siri Subrahmanyam Vadlamani; G Narayanan</i>
1570477019	Experimental Validation of CCM and DCM Operations of Semi-Bridgeless Boost Rectifier for Power Quality Improvement in UPS System <i>S Rajasekar; Kumaresan Natarajan</i> <span style="float: right;"><i>Karthikeyan V;</i></span>
1570477075	A Generalised State-Space Approach for Studying EMTP Simulation Models <i>Vinay Chindu, T S; Anil Kulkarni</i>
1570479759	Novel Non-isolated Modified Interleaved DC-DC Converter to Integrate Ultracapacitor and Battery Sources for Electric Vehicle Application <i>S; Gangavarapu Guru kumar; Kuruva Veeranna; Karthikeyan V</i> <span style="float: right;"><i>Kumaravel</i></span>

### 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 <i>Pranda Prasanta Gupta; Prerna Jain; Sharma Suman; Kailash Chand Sharma; Rohit Bhakar</i>
1570476382	Optimal Protection Coordination for Microgrid considering DG and Line Outages using IWO-ILP Technique <i>Stp Srinivas; Swarup S</i>
1570476455	A Unified Distributed Control Strategy for DC Microgrid with Hybrid Energy Storage Devices <i>Ramesh Naidu Bonu; Sherin Jose; Divyank Singh; Prabodh Bajpai</i>
1570476502	Performance of FCS-MPC based current controller for VSC based DG sources <i>Sathiyarayanan; Sukumar Mishra</i> <span style="float: right;"><i>T.</i></span>
1570476636	Increasing Hosting Capacity of PV Solar Systems using Smart Inverter Volt-Var Control <i>Rajiv Varma; Sibin Mohan; Yafet Gebremariam; Syeed Hasan</i>