

ICPS 2019

PROGRAM SCHEDULE

Day I

Friday, 20 December, 2019

TIME	PROGRAM	
08:00 AM onwards	Registration	
08:00 AM – 08:45 AM	Breakfast	
09:00 AM – 12:00 PM Tutorial-1, 2 (Parallel Session)	1: Integrated Renewable Energy Systems	2: Smart Grid and Energy Storage
	Prof. Mohan Kolhe, Uni. of Agder, Norway	Dr. Rob Hovsopian NREL, USA
	Dr. S Williamson Ontario Tech., USA	Dr. Jayant Kumar GE, USA
	VLTC-109	VLTC-APJ Abdul Kalam Hall
12:00 PM – 01:00 PM	Lunch	
01:00 PM – 04:00 PM Tutorial-3, 4 (Parallel Session)	3: AC and DC Micro-Grid Control	4: Synchro-Phasors for Power System Applications
	Prof. Bhim Singh IIT Delhi	Prof. S. A. Soman IIT Bombay
	Prof. Sukumar Mishra IIT Delhi	Prof. A. M. Kulkarni IIT Bombay
	VLTC-109	VLTC-108
04:00 PM – 04:30 PM	Tea	
04:30 PM – 06:30 PM	Inaugural Program	
	Keynote 1: Transactive Control in Smart Grids Anuradha Annaswamy, MIT, USA	
	VLTC-APJ Abdul Kalam Hall	
06:30 PM – 07:00 PM	High Tea	
07:00 PM onwards	City Tour / Chokhi Dhani	

Day II

Saturday, 21 December, 2019

TIME	PROGRAM			
08:00 AM onwards	Registration			
08:00 AM – 08:45 AM	Breakfast			
09:00 AM – 10:00 AM Paper Sessions: 1-4	1: PSP-I (VLTC-109)	2: REI (VLTC-108)	3: PSE (VLTC-107)	4: PSPR (VLTC-106)
	Leveraging International Collaborations for Advanced Distribution Systems with DG and Storage			
	Prof. Noel N. Schulz, Washington State University, USA			
	VLTC-APJ Abdul Kalam Hall			
10:05 AM – 10:40 AM Keynote-2	Integration of Renewable and Grid Reliability			
	Prof. Chanan Singh, Texas A&M University, USA			
	VLTC-APJ Abdul Kalam Hall			
11:15 AM – 11:25 AM	Tea			
11:25 AM – 12:00 PM Keynote-4, 5 (Parallel Sessions)	4: Designing the Electrical Grid for Resiliency	5: Deepening the Power Market - Way Forward		
	Dr. Gary B. Huffman Burns & McDonnell	Mr. Rohit Bajaj IEX		
	VLTC-APJ Abdul Kalam Hall		(VLTC-109)	
12:00 PM – 01:00 PM Paper Sessions: 5-8	5: DSM (VLTC-109)	6: OPTM-I (VLTC-108)	7: PEAP-I (VLTC-107)	8: CAPS-I (VLTC-106)

Day II
Saturday, 21 December, 2019

TIME	PROGRAM			
01:00 PM – 01:55 PM	Lunch			
01:55 PM – 02:30 PM Keynote-6	Role of HVDC and Power Electronics in the Future Electric Smart Grid			
	Dr. Rambabu Adapa, EPRI, USA			
	VLTC-APJ Abdul Kalam Hall			
02:30 PM – 03:30 PM (Industry Panel Session)	Renewable Energy Integration Challenges in India			
	Dr. Rambabu Adapa (EPRI), Shri. S. R. Narasimhan (POSOCO), Shri. Arun Kumar Mishra (NSGM), Dr. Anukram Mishra (Genus Power Infra.), Preetham Yalla (ABB), Prof. Anoop Singh (IIT Kanpur), Prof. Mukhtiar Singh (DTU)			
	VLTC-APJ Abdul Kalam Hall			
03:30 PM – 03:45 PM	Tea			
03:45 PM – 04:45 PM Paper Sessions: 9-12	9: PSP (FD) (VLTC-109)	10: DSA (VLTC-108)	11: SG-I (VLTC-107)	12: ESS (VLTC-106)
04:45 PM – 05:20 PM Keynote-7	Digital Substation – A New Paradigm for Protection, Monitoring and Automation			
	Prof. T S Siddhu, Ontario Tech, USA			
	VLTC-APJ Abdul Kalam Hall			
05:20 PM – 05:30 PM	Tea			
05:30 PM – 06:30 PM Paper Sessions: 13-16	13: DCM (VLTC-109)	14: PSP (RC) (VLTC-108)	15: PSM (VLTC-107)	16: RES (VLTC-106)
06:30 PM – 09:30 PM	Cultural Program and Conference Dinner			

Day III
Sunday, 22 December, 2019

TIME	PROGRAM			
08:00 AM onwards	Registration			
08:00 AM – 08:45 AM	Breakfast			
09:00 AM – 10:00 AM Paper Sessions: 17-20	17: PSP-II (VLTC-109)	18: PSDS (VLTC-108)	19: SG-II (VLTC-107)	20: PSO (VLTC-106)
10:05 AM – 10:40 AM Keynote-8	Advances in Simulation Tools for the Future Grid			
	Prof. Aniruddha M. Gole, University of Manitoba			
	VLTC-APJ Abdul Kalam Hall			
10:40 AM – 11:15 AM Keynote-9	Day-Ahead Scheduling of a Local Energy Community			
	Prof. Alberto Borghetti, University of Bologna, Italy			
	VLTC-APJ Abdul Kalam Hall			
11:15 AM – 11:25 AM	Tea			
11:25 AM – 12:00 PM Keynote-10	Tools for Enabling the Resilient Electric Grid			
	Dr. Anurag K. Srivastava, Washington State University, USA			
	VLTC-APJ Abdul Kalam Hall			
09:00 AM – 10:00 AM Paper Sessions: 21-24	21: EV (VLTC-109)	22: ESI (VLTC-108)	23: PEAP-II (VLTC-107)	24: CAPS-II (VLTC-106)
01:00 PM – 01:55 PM	Lunch			
02:00 PM – 03:00 PM Industry Session & Paper Session: 25-26	Industry Session (VLTC-109)	25: ACM (VLTC-107)	26: OPTM-II (VLTC-106)	
03:00 PM – 03:35 PM Keynote-11	Diversity in Indian Power System			
	Shri. S K Soonee, Advisor, POSOCO			
	VLTC-APJ Abdul Kalam Hall			
03:35 PM – 03:45 PM	Tea			
03:45 PM – 5:30 PM	Valedictory Session Chair: Shri S K Soonee, Advisor, POSOCO			

PAPER PRESENTATION SESSIONS

Day II

Saturday, 21 December, 2019

Time: 09:00 AM - 10:00 AM

P. ID	Technical Session-1: Power System Protection-I (PSP-I)	Venue: VLTC-109
77	Author: S. Bhutada, S. Barot and S. Chetwani Analysis of Higher Partial Discharge Values in 36 kV Resin Cast Epoxy Bushings: A Case Study	
83	Author: A. R. Kulkarni, M. S. Ballal and A. Gautam Operational Experience and Performance Evaluation of Prime System Integrity and Protection Schemes (SIPS) in India	
97	Author: H. C. Kamble, T. P. Hinge and S. S. Dambhare Improved Integrated Impedance Scheme for Series Compensated Transmission Line	
102	Author: P. Gawande and S. Dambhare Pilot Scheme for System Integrity Protection during Stressed Conditions	
111	Author: O. D. Naidu, A. K. Pradhan and N. George Accelerated Zone-2 Protection Scheme for Transmission Lines using Traveling Waves	
177	Author: S. Jena and B. R. Bhalja A New Differential Protection Scheme for Busbar using Teager Energy Operator	
P. ID	Technical Session-2: Renewable Energy Integration (REI)	Venue: VLTC-108
13	Author: P. K. Gupta, S. Paul and N. P. Padhy A Study on Impact of Weather Based Dynamic Line Rating on Renewable Integration in a Practical Indian Power System	
50	Author: P. Mahish and A. K. Pradhan Synchrophasor Data Based Distributed Droop Control in Grid Integrated Wind Farms to Improve Primary Frequency Response	
163	Author: J. K. Mallik, S. Gautam, S. Mathema, B. Koirala, H. D. Shakya and M. Adhikari Micro Hydropower in Nepal: A Journey from Stand-alone System to Distributed Generation	
175	Author: H. Vardhan, N. M. Sarkar and H. Neema Modeling and Optimization of a Longitudinally-Distributed Global Solar Grid	
206	Author: B. R. Naidu, P. Bajpai and C. Chakraborty Voltage Fault Ride-Through Operation of Solar PV Units: A Review and Way Forward	
298	Author: A. Gupta, R. K. Ahuja and S. Aggarwal Micro-grid Operation by Control Strategies of Distributed Generation System	
P. ID	Technical Session-3: Power System Economics (PSE)	Venue: VLTC-107
90	Author: S. Rasheed and A. R. Abhyankar Development of Nash Equilibrium for Profit Maximization Equilibrium Problem in Electricity Market	
114	Author: R. Priyadarshi, T. Thakur and Anoop Arya Performance Evaluation of Rural Electrification sector of India	
145	Author: A. Sharma, R. Bhakar, H. P. Tiwari and P. Jain Distribution Network Pricing to Mitigate Uncertain Load Scenario	
162	Author: Tripta Thakur A Cost Frontier Model for Indian Electricity Generating Utilities: A Stochastic Approach	
243	Author: N. Hadiya, F. Teotia, R. Bhakar, P. Mathuria and S. Vyas Identifying the Potential for Peer-to-Peer Trading of Rooftop Solar Power for Indian Scenario	
263	Author: S. Singh and M. Fozdar Double Sided Bidding Strategy in a Day-Ahead Electricity Market	
303	Author: N. Sharma and A. K. Chakraborty Development of Feed-In-Tariff using Unbundle Smart Meters for Small Scale Wind Power Generating Plant and Small-Scale Roof-Top Solar Plant	
P. ID	Technical Session-4: Power System Planning and Reliability (PSPR)	Venue: VLTC-106
88	Author: N. Karmakar, A. Gupta and B. Bhattacharyya Loss Sensitivity based Reactive Power Planning using Hybrid Intelligence Technique	
104	Author: S. Hasan and H. J. Bahirat Impact of BESS Operating Methods on Reliability of Renewable Energy sources	
165	Author: S. Mudgal, A. K. Yadav and V. Mahajan Reliability Evaluation of Power System Network with Solar Energy	
213	Author: S. Gupta, K. Singh and V. K. Yadav Transmission Expansion Planning in Deregulated Electricity Markets using Multi-Criteria Data Envelopment Analysis (MCDEA)	
232	Author: A. Yadav, S. Mudgal and V. Mahajan Reliability Test of Restructured Power System with Capacity Expansion and Transmission Switching	
245	Author: A. Gupta, K. C. Sharma, A. Vijayvargia and R. Bhakar Very -Short term Wind Power Prediction Using Hybrid Univariate ARIMA-GARCH Model	
293	Author: M Vetri Selvi and S. Mishra Investigation of Influence of Derived Weather Variables using two different Approaches for Modeling Day-Ahead Hourly Electric Load Power Demand Forecasting Framework with Standard Long Short-Term Memory Networks	

Day II**Saturday, 21 December, 2019****Time: 12:00 PM - 01:00 PM**

P. ID	Technical Session-5: Demand Side Management (DSM)	Venue: VLTC-109
2	Author: B. L. Gupta and S. Sivasubramani Multi-objective residential demand side management with solar and wind energy integration	
103	Author: S. Dash, R. Sodhi and B. Sodhi A Semi-Intrusive Load Monitoring Approach for Demand Response Applications	
110	Author: V Suresh, R. Sutradhar, M. Mandal, S. Singha and A. Jaiswal Demand Side Management Through Hydro URS in North-Eastern Region	
147	Author: P. Kumar, G. S. Brar and L. Singh Energy efficiency evaluation in commercial and residential buildings with demand side management: A review	
173	Author: P. Gupta and Y. Verma Role of Residential Demand Response in Optimizing Utility Cost in PV integrated System under Frequency Linked Pricing Environment	
211	Author: S. Jena and B. R. Bhalja Impact of Demand Response in Integration of Renewable Energy Resources in Smart Grid	
P. ID	Technical Session-6: Power System Optimization -I (OPTM-I)	Venue: VLTC-108
71	Author: P. N. Yasasvi, A. Mohapatra and S. C. Srivastava An Exact Second Order Conic Programming Formulation with McCormick based Relaxation for OPF Solution	
74	Author: A. Sharma and A. Shukla SSB-CPSO Based Multi-Objective Security Constrained Unit Commitment Solution Using NBI	
91	Author: S. Ranjan and A. R. Abhyankar Network Constraint Compliant Choice of Renewable Energy Source Siting	
115	Author: A. Dhandhia and V. Pandya Multi Classification of Static Security Assessment using Teaching Learning based Optimization enhanced Support Vector Machine	
167	Author: R. Devarapalli and B. Bhattacharyya Application of Modified Harris Hawks Optimization in Power System Oscillations Damping Controller Design	
176	Author: M. Kumar and Mala De Optimal Load Scheduling for Industrial Load – Analysis for a Generalized Industrial Load Model	
297	Author: A. R. Bhowmik, A. K. Chakraborty and S. Mukherjee Gauss/Mouse Map based Chaotic Lightning Search Algorithm for Sizing and Allocation of DG and DSTATCOM Considering Probabilistic Load Flow	
P. ID	Technical Session-7: Power Electronic Applications to Power Systems-I (PEAP-I)	Venue: VLTC-107
63	Author: A. S. Kumar and B. P. Padhy A Novel Adaptive Droop Control Strategy for Improved Power Sharing and DC Voltage Control in MTDC grids	
69	Author: S. K. Gadari, P. Kumar, K. Mishra, A. R. Bhowmik and A. K. Chakraborty Detailed analysis of Fuzzy Logic Controller for Second order DC-DC Converters	
70	Author: A. Shaikh and R. Harchandani Implementation of Ultra-Wide Band Marx Generator with Improvised P F N Topology for Antenna Load	
124	Author: S. S. Indalkar and A. Sabnis An OFF Board Electric Vehicle Charger Based on ZVS Interleaved AC-DC Boost PFC Converter	
231	Author: A. Laddha, N. Satyanarayana and Vijayakumar K State Frame of Multi-port DC-DC Converter	
240	Author: Madhukar Rao A, V Srinivas and B Sridivya Multilevel Inverter Topology with Symmetrical and Asymmetrical Sources for Distributed Energy Resources	
308	Author: K. Kokkkonda and P. S. Kulkarni PV Fed Active clamped ZVS High Voltage Gain DC-DC Converter for Grid-Tied Photovoltaic applications	
P. ID	Technical Session-8: Control Application to Power Systems-I (CAPS-I)	Venue: VLTC-106
3	Author: P. Jain, V. Agarwal, B. P. Muni, S. E. Rao, S. Mukherjee and K. Mukund CAN-based architecture for MSC-GCCI with Maximum Power Point Tracking in large PV installations	
54	Author: B. Couraud, P. Kumar, V. Robu, D. Jenkins, S. Norbu, D. Flynn and A. R. Abhyankar Assessment of Decentralized Reactive Power Control Strategies for Low Voltage PV Inverter	
92	Author: A. V. Tare, P. Patil and V. Pande Design of Fractional-order Power System Stabilizer	
96	Author: M. Sarkar, B. Subudhi and P. Daigavane Robust PI Damping Controller design using Wide-Area Signal for Inter-area Oscillation in Power System	
140	Author: U. Solanki, G. P. Prajapat and P. Jha Unscented Kalman Filter based Mechanical Parameter Estimation of Wind Turbine Systems	
154	Author: N. R. Naguru and Yatendra Babu G V N Reduced-Scale Wide Area Control System Design Based Upon the Dominancy Index Analysis	
239	Author: K. K. Gajjar and A. M. Kulkarni Selective Eigenvalue Analysis for Wide-Area Measurement and Control Applications – A Review	

Day II**Saturday, 21 December, 2019****Time: 03:45 PM - 04:45 PM**

Technical Session-9: Power System Protection: Fault Detection (PSP -FD)		Venue: VLTC-109
37	Author: U. R. Prasad, C. Vyjayanthi and Jaison K Modelling and Detection of Interturn Faults in Distribution Transformer	
105	Author: A. G Augustine and Od Naidu A Novel Fault Section Identification Algorithm for a Series-Compensated Transmission Line	
157	Author: U. Sahu and A. Yadav Fault detection in MTDC network utilising one end measurements	
200	Author: N. H. Kothari, B. R. Bhalja, V. Pandya, P. Tripathi and S. Jena A Faulty Section Identification Scheme in Thyristor Controlled Series Compensated Transmission Lines using Superimposed Currents	
241	Author: C. P. Reddy and R. Bhimasingu Synchronised Measurement Based Fault Location Algorithm for Three Terminal Homogeneous Transmission Lines	
274	Author: S. Chatterjee Identification of Faults During Power Swing: A PMU Based Scheme	
Technical Session-10: Distribution System Analysis (DSA)		Venue: VLTC-108
19	Author: V. Telukanta, Basavaraj, Praveen, C. Reddy, Krishna V and D. Rout Technical Loss Evaluation and Reduction for Agricultural Distribution Feeder	
55	Author: S. Paul, N. Padhy, S. K Mishra and A. K Srivastava UUCA: Utility-User Cooperative Algorithm for Flexible Load Scheduling in Distribution System	
84	Author: A. Dutta, S. Ganguly and C. Kumar Voltage Control in Active Distribution Networks and an Approach based on Model Predictive Control	
161	Author: A. Khan, S. Chakrabarti, A. Sharma and M. N. Alam Parameter and Topology Estimation for Electrical Power Distribution System	
189	Author: S. Das, D. Das and A. Patra Distribution Network Operation with Dispatchable Distributed Generation considering Load Variations	
217	Author: A. S. Kumar and B. K. Kumar A Non-iterative Three Phase Distribution System Power Flow Analysis	
Technical Session-11: Smart Grids-I (SG-I)		Venue: VLTC-107
35	Author: S. D. Varwandkar and J. Lin Power Displacement Analysis for Power Systems - A Commodity Model	
72	Author: Amulya and K. S. Swarup Analysis of False Data Injection Attacks on Multiarea Load Frequency Control	
81	Author: B. P. Robert, P. A. Babu, N Kashyap and Gurunath G Practical Approaches Towards Securing Edge Devices in Smart Grid	
178	Author: A. Mishra, B. Agarwal, Rajeev Kk and D. Minocha Assessment of Features in Smart Meters to Enhance Consumers Safety	
282	Author: S. Nagar, V. Gupta, R. Kumar, A. Mathur and V. P. Singh Optimizing Billing Cost and Revenue in PV - BES Integrated Residential Society	
304	Author: A. Pal, A. Bhattacharya and A. K. Chakraborty Allocation of EV Fast Charging Station with V2G Facility in Distribution Network	
Technical Session-12: Energy Storage Systems (ESS)		Venue: VLTC-106
95	Author: Phani Teja B, S. Ghosh, L. K. Sahu and A. K. Dwivedi Parameter estimation of PEM Fuel Cell Electrical Equivalent Model using Hybrid Optimization	
130	Author: D. Dey, A. R. Bhowmik and S Mukherjee Fabrication and Performance Analysis of TiO ₂ based Photo Electro Chemical Cell	
139	Author: L. Vankudoth and Dr Altaf Q.H. Badar Distribution Network Optimization through Siting and Sizing of BESS	
142	Author: R. Krishan, N. Rodrigues and S. Vyas Battery Energy Storage System Operational Control for Distribution Transformer Overload Management	
262	Author: Anil Kumar K, P. Kushwaha, V. Prakash, R. Bhakar, H. P. Tiwari and K. G. Sharma Inertia Emulation Trends in Low Carbon Power Systems	

Day II

Saturday, 21 December, 2019

Time: 05:30 PM - 06:30 PM

P. ID	Technical Session-13: DC Micro-grid (DCM)	Venue: VLTC-109
53	Author: S. Jena, N. Padhy, S. C. Srivastava and Noel N. Schulz A hybrid RC-droop control strategy for power sharing and voltage restoration in islanded DC microgrids	
60	Author: K. R. Naik, B. Rajpathak, A. Mitra and M. Kolhe Voltage stability of Small Hydro Generator Based DC Microgrid	
79	Author: Abhiram V P, A. B. Shyam, S. R. Sahoo and S. Anand Stability of DC Microgrid for Different Reduced Communication Topologies	
229	Author: S. K. Srivastva, R. K. Panda, Sai Sowmya N and A. Mohapatra Current Derivative based schemes for Fault Location in DC Microgrid	
237	Author: P. Gupta and Y. Verma A wavelet and ANFIS based reliable protection technique for Microgrid	
299	Author: S. Bagudai, O. Ray and S. Samantaray Evaluation of Control Strategies within Hybrid DC/AC Microgrids using Typhoon HIL	
P. ID	Technical Session-14: Power System Protection: Relay Coordination (PSP- RC)	Venue: VLTC-108
99	Author: N. George, Surajath P, O. D. naidu and P. Yalla Machine Learning Based Setting-free Reach Element for Zone-1 Distance Protection	
106	Author: K. Gupta, S. Sarangi and S. K. Gadari Adaptive Voltage Based Relay Setting for PV Connected Distribution System	
107	Author: S. K. Joshi, B. Sahoo and S. R. Samantaray A New Approach to Supervise Vulnerable Third Zone Relay Operation for Power Transmission System	
109	Author: S. Samal, S. R. Samantaray and M. S. Manikandan A DNN based Intelligent Protective Relaying Scheme for Microgrids	
234	Author: G. K. Rao, Premalata .J and S. Sarangi Adaptive Fault Location Algorithm for Series Compensated Line Using Relay data	
P. ID	Technical Session-15: Power Systems Measurement (PSM)	Venue: VLTC-107
28	Author: K. Chauhan and R. Sodhi A Comparative Analysis of μ PMU Placement for Active Distribution Network's Observability	
45	Author: N. A. Rathod, H.H. Patel and S.R. Joshi Distributed Hybrid State Estimation with IIR Conditioning of Sub Area	
66	Author: Y. Bansal and R. Sodhi An Adaptive IIR Notch Filter based Half-Cycle P-Class Phasor Measurement Estimation Scheme	
67	Author: S. Kannan and J. Meyer Recent Developments in Harmonic Resonance Detection in Low Voltage Networks using Impedance Measurement Techniques	
155	Author: S. Jadhav, S. Lavand and G. Gajjar Wide Area Measurement System based Frequency Data Mining for Event Detection in Power System	
313	Author: Phanendra Babu N V and Suresh Babu P Optimal Identification and selection of Phasor Measurement Units- A Methodology	
P. ID	Technical Session-16: Renewable Energy System (RES)	Venue: VLTC-106
12	Author: R. M. Pindoriya, B. S. Rajpurohit and A. Monti An Investigative Study of the PMSG Based Wind Turbine Using Real Time Simulation	
43	Author: U. Sarma, S. Ganguly and A. Dutta Determination of component sizes and analysis of the operational cost of PEM Fuel-Cell-Battery Hybrid Energy System to Retrofit the Diesel Locomotives of Indian Railway	
48	Author: H. K. V. Gadiraju, Venugopal Reddy B and Israyelu M Dynamic Photovoltaic Array Reconfiguration for Standalone PV Water Pumping System	
185	Author: S. Singh, Seema, B. Singh and B. K. Panigrahi MRZA-LMM with IMTOGI Control for Grid Tied PV System	
215	Author: P. Malik, M. Awasthi and S. Sinha Analysis of sensitive parameters influencing a SPV/WT/Biomass/Battery based hybrid system	
221	Author: G. Raina and S. Sinha Study of PV Systems using Fin Augmentation in real outdoor condition	

Day III**Sunday, 22 December, 2019****Time: 09:00 AM - 10:00 AM**

P. ID	Technical Session-17: Power System Protection-II (PSP-II)	Venue: VLTC-109
94	Author: J. P. Shah and S. Talati Modeling and Analysis of Very Fast Transient Over voltages in 400 kV GIS	
144	Author: J. Dey, S. Dutta, A. Baral and S. Chakravorti Leakage Current Based Analysis of Suspension Insulator for Effective Determination of ESDD	
146	Author: V. Singh, D. Mishra, A. Baral and S. Chakravorti A Method to Predict Degree of Polymerization Value of Oil-paper Insulation Using Interfacial charge	
169	Author: P. Das and A. Baral Effect of Tower Footing Resistance on Back Flashover for a Double Circuit Line	
184	Author: V. K. Gaur and Bhavesh R. Bhalja Wavelet Transform Modulus Maxima-based Fault Location Method for Three-Terminal Transmission Line	
266	Author: J. P. Keshri and H. P. Tiwari Fault Classification in VSC-HVDC using Machine Learning Approach	
P. ID	Technical Session-18: Power System Dynamics and Stability (PSDS)	Venue: VLTC-108
31	Author: S. Sherkar, Srikanth P and A. Mitra Assessing the impacts of integration of Solar PV on transient stability of the power system using a sensitivity-based index	
32	Author: Suresh D Varwandkar Frequency Separation in Mixed Inertia Power Systems Using Modular Approach	
36	Author: G. V. N. Yatendra Babu and V. Sarkar A Case Study on Clustering Methods Applied to Identification of Generator Coherency for Controlled Islanding	
46	Author: A. Chandra and A. K. Pradhan Online Voltage Stability Assessment using Wide Area Measurements	
89	Author: M. Fatnani and A. Mitra Small signal stability analysis of wind farm integrated multi-machine power system with distributed load	
98	Author: K. Dey and A. M. Kulkarni Investigation of Passivity Behavior of Synchronous Generators Connected to Passive Network	
220	Author: S. D. Hanwate, Yogesh V Hote and S. Jain Relative Stability Analysis of Load Frequency Control with QRAWCP-PID controller	
P. ID	Technical Session-19: Smart Grids-II (SG-II)	Venue: VLTC-107
65	Author: B. Gayathri and C. Yammani Multi-Attacking Strategy on Smart Grid with Incomplete Network Information	
152	Author: V. Garg and B. Agarwal Survey of Literature on Machine Intelligence and Deep learning for Smart Grid Applications	
158	Author: N. K. Singh and V. Mahajan Cyber Attack Detection In Smart Grid Substation Using Virtual Range Increment And Trust Weight	
209	Author: P. Singh, S. K. Jain, D. Kumar, P. K. Agarwal Successful Mitigation of Week Roll Over Issue of Global Positioning System in Indian Power System – A Case Study	
254	Author: A. Chandra, A. Singh, V. Prakash and R. Bhakar Automated Inspection System for Object Defect Detection	
P. ID	Technical Session-20: Power System Operations (PSO)	Venue: VLTC-106
8	Author: S. Debbarma, C. Hazarika, S. D. Roy SPC based approach for Frequency Control of Power Systems Penetrated with Fast Acting Reserve	
11	Author: D. Zala, Shubhanga Kn and Krishna Rao Modal Analysis of Multi-Machine Power System for Load Perturbation	
15	Author: N. Kunnuthottiyil and S. Swarup Optimal utilization of Transmission Capacity in Indian Grid by placement of Phase Shifting Transformer using Combinational Algorithm	
21	Author: A. Prakash and S. K. Parida LFC of Interconnected Power System with TCSC using Salp Swarm Algorithm	
22	Author: M. Gupta and A. R. Abhyankar Transmission Contingency Selection Considering Impact of Uncertain Distributed Generation	
143	Author: S R Narasimhan, S S Barpanda, P. Adhikari, D. K. Shrestha, S. B. Bhattarai, Debasis De, N Nallarasan, G Chakraborty, Samir C Saxena and K V N Pawan Kumar Success Story of India-Nepal Power System Operation	
253	Author: P. Kushwaha, V. Prakash, R. Bhakar, Udaykumar R Yaragatti, S. Yamujala and A. Jain Primary Frequency Response Constrained Energy Storage Scheduling Under Photovoltaic Generation	

P. ID	Technical Session-21: Electric Vehicles (EV)	Venue: VLTC-109
52	Author: A. Sadhukhan, S. Sivasubramani and Md S. Ahmad Optimal Placement of Electric Vehicle Charging Stations in a Distribution network	
125	Author: S. Sharma, P. Jain, R. Bhakar and A. Mishra Grid-to-Vehicle Smart Charging Strategies for Electric Vehicles Aggregator: A Review and Outlook	
156	Author: H. S. Bhattacharyya, A. B. Choudhury and C. K. Chanda Performance Analysis of a Lithium-ion Battery Pack in EV Application Using an Auto-Upgraded Neural Network Model	
182	Author: J. Singh and R. Tiwari Hierarchical Coordinated Control of Electric Vehicle Parking Lot in Distribution System	
216	Author: M. Kumar, S. Vyas and A. Datta A Review on Integration of Electric Vehicles into a Smart Power Grid and Vehicle-to-Grid Impacts	
233	Author: A. Gautam, A. K. Verma and M. Srivastava A Novel Algorithm for Scheduling of Electric Vehicle Using Adaptive Load Forecasting with Vehicle-to-Grid Integration	
P. ID	Technical Session-22: Energy Storage Integration (ESI)	Venue: VLTC-108
166	Author: P. Singh, S. K. Bishnoi, N. K. Meena and J. Yang Simultaneous Integration of Renewable Power Generation and Battery Energy Storage in Distribution Networks	
242	Author: A. Sharma, A. Jain, N. Rodrigues, A. Datta and S. Vyas Evaluating the Smoothing Application of BESS for Large Solar Photovoltaic Parks	
247	Author: S. Yamujala, A. Jain, R. Bhakar, J. Mathur and P. Kushwaha Operational Flexibility Enhancement through Flexible Ramp Products from Energy Storage	
261	Author: G. Nair and N. Senroy Coordinated control of HESS in Wind power systems	
294	Author: D. Jain, Sandeep N, A. K. Verma and Udaykumar R. Yaragatti A Simple Methodology for Sizing of Stand-Alone PV-Battery System	
316	Author: N. Bhusal, M. Abdelmalak and M. Benidris Optimum Locations of Utility-Scale Shared Energy Storage Systems	
P. ID	Technical Session-23: Power Electronic Applications to Power Systems-II (PEAP-II)	Venue: VLTC-107
174	Author: F. Dubuisson, A. Chandra, M. Rezkallah, H. Ibrahim and B. Singh Predictive Based Control Algorithm for Hybrid Diesel-Battery Standalone Power Generation System	
201	Author: P. Pandey and P. Agnihotri An Efficient LLC Resonant Converter Design for Photovoltaic Application	
214	Author: M. Phansopkar, M. Rane and S. Thale Analysis and Control of Quasi Z-source Inverter with Digital Current Control for Energy Storage	
219	Author: R. K. Agrawal, M. P. Sharma, N. K. Kumawat and B. Vyas High Voltage Mitigation of EHV System by Shunt Reactor vs. Shunt Capacitor	
249	Author: D. R. Karthik and S. M. Kotian Initialization of Doubly-fed Induction Generator Wind Turbines Using Noniterative Method	
283	Author: S. Kumari, Sandeep N, A. K. Verma, Udaykumar R. Yaragatti An Improved Unipolar SPWM for Transformer less PV Grid Connected Inverter	
284	Author: S. Rastogi, M. S. Rana and S. K. Mishra A Dual-DC Output Unity Power Factor Rectifier for Smart Home	
P. ID	Technical Session-24: Control Application to Power System-II (CAPS-II)	Venue: VLTC-106
25	Author: N. E. Morsy, M. A. Attia, Almoataz Y. Abdelaziz and N. Kanwar Optimization of the PI controller to improve the dynamic performance of grid-connected photovoltaic system	
57	Author: K. Kumar, S K Parida and P. K. Biswas Comparative Analysis of PSS and IPFC based Damping Controller for SMIB System	
123	Author: N. C. Munukutla, Dr. V. S. Krishna Rao Gadi and Dr R. Mylavarapu A Simplified Approach to Controlled Islanding of Power System	
141	Author: A. Kumar and P. Kumar Sliding Mode Control of DSTATCOM for Power Quality Improvement	
160	Author: P. Kumar G and P. Jena A Study on Effect of Different Control Strategies on Q-f Droop Based Islanding Detection Technique	
186	Author: P. K. Pathak, A. K. Yadav and P. A. Alvi Maximum Power Operation of SPV System using Advanced FL based Control Strategy	

Day III**Sunday, 22 December, 2019****Time: 02:00 PM - 03:00 PM**

P. ID	Technical Session-25: AC Micro Grids (ACM)	Venue: VLTC-107
34	Author: Anil A and Srikanth N Load Frequency Control of an Autonomous Microgrid Using Robust Fuzzy PI Controller	
101	Author: S. V. Hareesh and K. Shanti Swarup Dynamic State Estimation of Synchronous Generator based Distributed Energy Resource in Autonomous Microgrid	
116	Author: A. Uniyal, S. Sarangi and H. Kala Droop based DG allocation in weakly meshed autonomous microgrid	
127	Author: B. K. Verma, S. Devassy, S. K. Ram, A. Abhishek and A. Dhakkar Control of a Multi-functional Solar PV-Battery System for Operation in a Microgrid Environment	
170	Author: A. Uniyal, S. Sarangi and H. Kala Optimal dump load allocation to regulate voltage and frequency in microgrid	
212	Author: A. Mishra and Premalata J Restoration in Microgrid using System Stability Criteria	
287	Author: V. Patel, D. Guha and S. Purwar Frequency regulation of an islanded microgrid using integral sliding mode control	
P. ID	Technical Session-26: Power System Optimization-II (OPTM-II)	Venue: VLTC-106
24	Author: S. Jain and N. Kanwar Day ahead optimal scheduling of generators using Dynamic Programming Method	
85	Author: P. Kumar, S. R. Vaishya and Abhijit R Abhyankar A Linearized Optimal Power Flow Framework for a Balanced Active Distribution Network	
120	Author: S. Reddy K, A. S. Al-Sumaiti, V. Gupta, R. Kumar and A. Saxena An Improved Binary Grey Wolf Optimizer (IBGWO) for Unit Commitment Problem in Thermal Generation	
190	Author: S. S. kumar, K. C. Sharma, R. Bhakar, S. Chawda, F. Teotia and V. Prakash Deviation Charge Reduction of Aggregated Wind Power Generation using Intelligently Tuned Support Vector Regression	
250	Author: C. P. Barala, P. Mathuria and R. Bhakar Optimal Scheduling for Residential Building Based on Virtual Energy Storage System	
290	Author: R. Vijay, J. S. Dhillon and P. Mathuria Economic Emission Load Dispatch using Fuzzy Decision based Whale Algorithm	
315	Author: A. Singh, T. B. Kumar, G. Yadav and R. Karna Security Constrained Economic Despatch – India: A Rolling Block Implementation Framework	