Student Poster Session

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Poster Categories:

- Advanced Computational Methods for Power System Planning, Operation, and Control
- Asset Management
- Cyber and Physical Security of the Smart Grid
- Dynamic Performance and Control of Power Systems
- Electric Machines and Drives
- Emerging Software Needs for the Restructured Grid
- Flexible AC Transmission Systems
- Integrating Renewable Energy into the Grid
- Intelligent Monitoring and Outage Management
- Market Interactions in Power Systems
- Power Electronics
- Power System Modeling and Simulation
- Smart Cities
- Smart Grid Technology
- Smart Sensors, Communication and Control in Energy Systems
- Substation and Distribution Automation
- System-Wide Events and Analysis Methods

IEEE PES Student Activities Subcommittee
Dr. Jignesh Solanki
Dr. Aaron St. Leger
Dr. Valentina Cecchi

Advanced Computational Methods for Power System Planning, Operation, and Control

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM001	A Robust Prony Method for Power System Electromechanical Modes Identification	Netto Marcos	G
17STUGM002	Spectral Interpolation for Frequency Measurement at Off-Nominal Frequencies	Qian Cheng	G
17STUGM003	A New Multi-Point Estimate Method on Uncertain Power Flow	Han Haiteng	G
17STUGM004	Coupled Stochastic and Robust Transmission Expansion Planning	Liu Dundun	G
17STUGM005	Electric Thermal Storage System Impact on Northern Communities' Microgrids	Solanki Bharatkumar	G
17STUGM006	Improving Short-Term Electricity Price Forecasting Using Day-Ahead LMP with ARIMA Models	Zhao Zhongyang	G
17STUGM007	Modeling the Transient Security Constraints of Natural Gas Network in Day-ahead Power System Scheduling	Yang Jing Wei	G
17STUGM008	An Approximate Dynamic Programming Approach for Optimization of an Islanded Microgrid	Das Avijit	G
17STUGM009	A Nonparametric Denoising Approach for Thevenin Equivalent Parameters Estimation based on Taut-String-Multiresolution Algorithm	Shen Shaofei	G
17STUGM010	A Cross-Entropy-Based Control Variate Method for Power System Reliability Assessment	Tang Yi	G
17STUGM011	Synthetic Evaluation of Power System Security Based on Intuitionistic Fuzzy Analytic Hierarchy Process	Shang Zhang	G
17STUGM012	Resilience-Oriented Design of Distribution System	Shanshan Ma	G
17STUGM013	Probabilistic load flow calculation with high-dimension correlated uncertainties	Sun Xin	UG
17STUGM014	Scenario-based Economic Dispatch with Uncertain Demand Response	Ming Hao	G
17STUGM015	VNS Algorithm for Distribution Systems Expansion Planning with Security Constraints	Faria Macedo Possagnolo Leonardo Henrique	G
17STUGM016	Secure Topology Control for Mitigating the Effects of Geomagnetically Induced Currents in Power Networks	Klauber Cecilia	G
17STUGM017	Inductive Perturbation Tolerance Improvement of Hybrid Networks using an Integrated Expert System	Abegaz Brook	G
17STUGM018	Semi-Analytical Fault-on Trajectory Simulation and Its Application in Direct Methods	Eric Abreut	UG
17STUGM019	Machine Learning based Controller for Performance Improvement in Shunt Active Filters	Malla Naresh	G
17STUGM020	A Graph Theory-Based Model for Power Grid Security Assessment	Hashemi Gavgani Mirjavad	G

Asset Management

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM021	Dynamic Approach in Estimating Transformer Lifetime	Majzoobi Alireza	G
17STUGM022	Replacement of Aging Power Transformers Considering System Risks under Multi-level Load	Ye Zhigang	G
17STUGM023	Finite Element Analysis to Understand the Mechanical Defects in Power Transformer Winding Clamping Structure	Wanisekara Lakshitha	G
17STUGM024	Impact of Smart Home Management Strategies on Expected Lifetime of Transformer	Mohsenzadeh Amin	G
17STUGM025	Reduction of Energy Consumption in Data Centers via Board-Level Liquid Cooling	Rasmussen Elizabeth	G

Cyber and Physical Security of the Smart Grid

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM026	Robust Dynamic State Estimator to Outliers and Cyber Attacks	Zhao Junbo	G
17STUGM027	Load-Based Malicious Control Vulnerability in the Presence of Random Load Variations	Brown Hilary	G
17STUGM028	An Active Security Defense Strategy for Wind Farm Based on Automated Decision	LaiJun	G
17STUGM029	Can Attackers with Limited Information Exploit Historical Data to Mount Successful False Data Injection Attacks on Power Systems?	Zhang Jiazi	G
17STUGM030	Cyber Security for Smart Grid's Remedial Action Scheme: Impact Analysis and Anomaly Detection	Singh Vivek Kumar	G
17STUGM031	Active Defense of Automatic Generation Control Based on Dynamic Watermarking	Huang Tong	G
17STUGM032	iBAs - Scalable Aggregation Methods for Reliable and Resilient Operation of Smart Grids	Jevtic Ana	G

Dynamic Performance and Control of Power Systems

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM033	Adaptive Adjustment of Noise Covariance in Kalman Filter for Dynamic State Estimation	Akhlaghi Shahrokh	G
17STUGM034	Comparison of P-V and P-Q Curves in Voltage Stability Analysis	Kou Xiao	G
17STUGM035	VSC-HVDC for enhancing power system stability in the load restoration stage of black start	Feng Wei	G
17STUGM036	A hybrid dynamic demand control strategy for power system frequency regulation	Shi Qingxin	G
17STUGM037	Resilient Wide-Area Damping Control for Interarea Oscillation Considering Communication Failure	Shen Yu	G
17STUGM038	Impact of Measurement Errors on Synchrophasor Applications	Zhao Jiecheng	G
17STUGM039	Frequency-domain Insight: Droop Control of Wind Farms Interfaced to Weak Grid and LCC-HVDC	Sai Gopal Vennelaganti	G
17STUGM040	Operational Inductance of DFIG-based Wind Turbines for Fault Current Analysis during LVRT	Chang Yuanzhu	G
17STUGM041	Active PV Power Control with Communication Delays for Voltage Regulation of Distribution Networks	Fu Chang	G
17STUGM042	Dynamic behavior of transformerless PV system on the short-term voltage stability of distribution network	Islam Md Monirul	G
17STUGM043	Study on the Migration of Out-of-step Oscillation Center in Power System considering the Virtual Inertial Control	Gucheng Xiao	G
17STUGM044	Improved Reactive Power Sharing Among Photovoltaic Inverters Using Thévenin's Impedance Based Approach	Raghami Alireza	G
17STUGM045	Design of a Mitigation Technique for Subsynchronous Interactions Induced by a DFIG-Based Wind System	Ghaffarzadeh Hooman	G
17STUGM046	Control of Distributed Energy Resources Under Switching Transient Between Grid-connected and Islanded Operation Modes	Gholami Sasan	G
17STUGM047	An Internal Model Principle based controller to damp electromechanical modes	Mansouri H. Mohammad	G
17STUGM048	A Novel Control Strategy for Subsynchronous Resonance Mitigation using 11kV VFD based Auxiliary Power Plant Loads	Dattaray Papiya	G
17STUGM049	An Optimal Generator Terminal Voltage Regulation Method for Transient Voltage Stability	Fang Sidun	G
17STUGM050	Decentralized Safety Supervisory Control to Ensure Adequate Frequency Response in Power Networks	Zhang Yichen	G

17STUGM051	Design of a Power Systems Dynamics Education Module Using a Drum Kit	Negahban Sirus	UG
17STUGM052	Distribution-level frequency estimation and modal analysis using inexpensive and open-source Phasor Measurement Unit	Shrestha Pranav	UG
17STUGM053	Distributed Control of MVDC Power System in Electric Ships	Zohrabi Nasibeh	G
17STUGM054	Integration of Wide Area Control with Renewable Energy Sources for Enhanced Damping	Zacharia Lazaros	G
17STUGM055	PLL-Less Transformed State Space(TSS)-based Inverter Control for Stabilizing Microgrids and Power Tracking	Xia Miao	G
17STUGM056	Identification of Critical Protection Functions for Time-Domain Simulations	Abdi-Khorsand Mojdeh	G
17STUGM057	Voltage Control Using Singular Value Decomposition of Fast Decoupled Load Flow Jacobian	Dehghan Banadaki Ali	G
17STUGM058	Distributed Control of MVDC Power System in Electric Ships	Zohrabi Nasibeh	G
17STUGM059	Damping Control Design for Pulse Width Modulation Series Compensator Using GrHDP	Lingkang Zeng	G

Electric Machine and Drives

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM060	Frequency Components Analysis of an Induction Machine under Different Fault Conditions	Hu Tingli	G
17STUGM061	A Novel DC Circuit Breaker Based on Voltage Source Inverter	Zhu Ruoxi	G

Emerging Software Needs for the Restructured Grid

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM062	Generating Radial Medium Voltage Distribution Test Feeders	Schweitzer Eran	G

Flexible AC Transmission Systems

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM063	The Link Between Power Flow Control Technologies: Topology Control and Variable-Impedance FACTS	Sang Yuanrui	G
17STUGM064	Sub-Synchronous Torsional Interaction study of South Korea model base with FACTS device	WooYoungShin	G

Integrating Renewable Energy into the Grid

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM065	Assessing Energy Storage Potential to Facilitate the Increased Penetration of Photovoltaic Generators and Electric Vehicle in Distribution Networks	Cunha Vinicius	G
17STUGM066	Load Aggregation Methods for Quasi-static Power Flow Analysis on High PV Penetration Feeders	Wang Jiyu	G
17STUGM067	Adaptive Droop-Based Active Power Curtailment Method for Overvoltage Prevention in Low Voltage Distribution Network	Maharjan Manisha	G
17STUGM068	Virtual Inertia Emulation Using Commercial Off-The-Shelf Inverter/Chargers	Tamrakar Ujjwol	G

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM069	Cascading Contingencies in Low Inertia Power Systems: Frequency Response Challenges and a Potential Solution	Masood Nahid Al	G
17STUGM070	A Semi-supervised Anomaly Detection Method for Wind Farm Power Data Preprocessing	Zhou Yifan	G
17STUGM071	Study of Variability Metrics for Solar Irradiance and Photovoltaic Output	Cui Yi	G
17STUGM072	SIRES vs Microgrids: Approaches for Rural Development	Maheshwari Zeel	G
17STUGM073	Reliability Evaluation of Offshore Wind Power Plants Considering Environmental Effect	Wang Biyang	G
17STUGM074	Implications of Synchronous Generator Withdrawal Following Renewable Proliferation in South Australia	Hales Jack	UG
17STUGM075	Volt/Var Control in Distribution Networks with High Penetration of PV Considering Inverter Utilization	Alkuhayli Abdulaziz	G
17STUGM076	Evaluating the Impacts of VPPs on the Joint Energy and Ancillary Service Markets Equilibrium	Hongye Guo	G
17STUGM077	A static voltage stability assessment scheme of power systems considering charging state of electric vehicles and load fluctuation limits	Shihao Zhou	G
17STUGM078	A Cascaded High Frequency AC Link System with Reduced Switch Count and Low-Voltage Ride-Through Capability for Large-Scale PV Systems	Elsayad Noureldeen	G
17STUGM079	Sub-synchronous Oscillation Analysis of Transmission System with Multiple Wind Farms	Yang Fan	G
17STUGM080	Energy Storage Integration into Wave Energy Systems	Wu Eric	G
17STUGM081	Capture Renewable Energy Uncertainty by Pair Convex Hull and Its Application to Robust DCOPF	Zeng Lin	G
17STUGM082	Exploring the Benefit of CSP to Serve Both Electrical Load and Heat Load	Du Ershun	G
17STUGM083	Multilevel Day-Ahead Solar Forecasting	Alanazi Mohana	G
17STUGM084	Developing a Microgrid Energy Management Scheme for a Pacific Northwest City	Samkari Husam	G
17STUGM085	Optimal Voltage Regulator Placement and Effect on PV Hosting Capacity	McEntee Catie	G
17STUGM086	Flexibility Resource and Demand Balance Mechanism in Power System Planning Considering High Penetration of Renewable Energy	Haibo Li	G
17STUGM087	Primary Frequency Response with Stochastic Scheduling Under Uncertain Photovoltaic Generation	Prakash Vivek	G
17STUGM088	Exploitation of MMC-HVDC to Improve Primary Frequency Support in Weak AC Grid	Lee Choongman	G
17STUGM089	An international comparison of wind power forecast errors over forecast horizon	Herre Lars	G
17STUGM090	Look-ahead Coordination of Reactive Power Support Devices with High Renewables	Geng Xinbo	G
17STUGM091	Optimal Energy Trading for PV Owning Active Consumers in the Day Ahead Market	Kanakri Haitham	G
17STUGM092	Optimal Charging of Plug in Hybrid Electric Vehicle in Vehicle-to-Building using Reinforcement Learning	Tiwari Deepak	G
17STUGM093	Economic Analysis of Renewable Energy with Energy Storage	McGLashan Kelsey	G
17STUGM094	Developing a Microgrid Energy Management Scheme for a Pacific Northwest City	Samkari Husam	G
17STUGM095	Power System Flexibility Scheduling Model For Wind Power Integration Considering Heating System	Xingang Yan	G

Intelligent Monitoring and Outage Management

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM096	Resilience-Oriented Distribution System Reconfiguration for Service Restoration Considering Distributed Generations	Yao Shuhan	G

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM097	High Precision Reference Signal Generation for Conformance Testing of PMU and Applications	Greig-Prine Jacob	UG
17STUGM098	Predictive Risk Analytics for Weather-Resilient Operation of Electric Power Systems	Dehghanian Payman	G
17STUGM099	Enhancing Distance Relay Security during Power System Stresses: An Apparent Power Approach	Gawande Prashant	G
17STUGM100	Post-disturbance Electric Grid Recovery Resource Allocation using a Microgrid Formation Approach	Sedzro Kwami Senam	G

Market Interactions in Power Systems

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM101	Low-cost greenhouse gas abatement via an emissions intensity scheme	Xenophon Aleksis	G
17STUGM102	Demonstration of Extended Locational Marginal Prices under High Penetration of Wind Power	zhang qiwei	G
17STUGM103	Bit-Energy: An Innovative Bitcoin-style Distributed Transactional Model for a Competitive Electricity Market	Luo Jingwei	G
17STUGM104	Optimal Operation of Battery Swapping-charging Systems Considering Quality-of-service Constraints	Xu Qianwen	G
17STUGM105	Optimal Real-Time Congestion Management in Power Markets Based on Particle Swarm Optimization	Mohammad M. Esfahani	G
17STUGM106	Demand Response Exchange Model for a Day-Ahead Electricity Market	Durvasulu Venkat	G
17STUGM107	Probabilistic Forecasting of Locational Marginal Pricing Using Hidden Markov Model	Bereta dos Reis Fernando	G
17STUGM108	Robust Bidding Strategy for Microgrids in Joint Energy	Wang Jianxiao	G
17STUGM109	Asymmetric Load Forecasting Considering Economic Factors	Sangrody Hossein	G
17STUGM110	Impact of Local Transmission Congestion on Energy Storage Arbitrage Opportunities	Wang Yishen	G
17STUGM111	Policy Comparison Regarding Energy Storage Profit in the Alberta Electricity Market	Arteaga Juan	G
17STUGM112	Data-Driven Security-Constrained OPF	Thams Florian	G
17STUGM113	A Reserve Response Set Model for Systems with Stochastic Resources	Singhal Nikita	G
17STUGM114	Market-to-Market Coordination: The State-of-Art and Challenges	Khanabadi Mojtaba	G
17STUGM115	Efficient Acquisition of Generation Reserves to Back-Up Wind: Possible Improvements in Dutch Electricity Markets	Hytowitz Robin Broder	G
17STUGM116	Financial Storage Rights for Load Shifting	Ibrahim Tarek	G
17STUGM117	Supply Curve Development for Capacity Market Clearing with Renewable Capacity	Bothwell Cynthia	G
17STUGM118	Customer Load Profile-based Pricing Strategy of Retailers with Generation Assets in Retail Markets	Ziming Ma	G

Power Electronics

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM119	Performance Enhancement of Pre-Filtered Multiple Delayed Signal Cancellation Based PLL	Gude Srinivas	G
17STUGM120	Analysis of Modular Multilevel Converter Under Arm Energy Unbalanced Condition in HVDC Transmission System	Kang Jaesik	G
17STUGM121	Reactive Power and Harmonic Compensation Based on Proportional Resonant Controller with MMC STATCOM	Kim Sangmin	G
17STUGM122	New Pre-charging Scheme for MMC Back-to-Back HVDC System Operated in Nearest Level Control	Kim Jae-Hyuk	G

Power System Modeling and Simulation

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM123	Control and Limit Enforcements for VSC Multi-Terminal HVDC in Newton Power Flow	Cui Hantao	G
17STUGM124	Fast Power System Simulation Using Semi-Analytical Solutions Based on Pade Approximants	Wang Bin	G
17STUGM125	An Impact-Increment Based Monte Carlo Simulation Reliability Assessment Approach for Transmission Systems	Yunkai Lei	G
17STUGM126	Voltage Stability Assessment of Power Systems with Dynamic Induction Motor Loads	Kamel Mariana	G
17STUGM127	Real-time Dispatch Module for Data Center as Virtual Power Plant	Tandukar Prajina	G
17STUGM128	A Shapley Value based Method for Allocating Carbon Obligation in Demand Side	Quan Zhou	G
17STUGM129	Transient Stability Modes of DFIG in Large Disturbance Based on Reduced-order DAE Models	Ye Yida	G
17STUGM130	Electromagnetic Transient Simulation of CIGRE DC Grid Test System with Hybrid Converter Topologies	Shen Zhuoxuan	G
17STUGM131	Affine Arithmetic-Based Approach to Assess the Impact of Weather Uncertainties on Electric Power Transmission Lines	Rahman Mahbubur	G
17STUGM132	A New Method Using Incremental Phasors for High Speed Digital Distance Relaying Scheme	Jin Xingxing	G
17STUGM133	Optimal Power Flow based on Frequency Security Constraint	Bera Atri	G
17STUGM134	Power Plant Model Verification at ISO New England	Wu Meng	G
17STUGM135	Inter-Area Resonance in Power Systems From Forced Oscillations	Zhi Yuan	G
17STUGM136	An application to generate synthetic electricity house load profiles	Brodén Daniel	G
17STUGM137	A Hardware-in-the-Loop Simulation of Power Swing Detection and Out-of-Step Protection	Jaya Raghavendra Arun Kumar Yellajosula	G
17STUGM138	State Space Modeling of Three-phase Transformers for Small Signal Analysis of Microgrid	Verma Vishal	G
17STUGM139	Spurious Inductor Loss of VSC-HVDC in EMT Simulation Study	Jongseo Na	G
17STUGM140	Distributed Locational Marginal Pricing based of Smart Home Management	Mohsenzadeh Amin	G
17STUGM141	Analytical Approach for Selecting Boundary of Hybrid Simulation	Seo Haewon	G
17STUGM142	Impedance-based stability analysis in grid interconnection impact study due to expanded adoption of converter interfaced generation	Cho Youngho	G
17STUGM143	Causal and Stability Analysis Considering Unusual Phenomenon due to Model Parametric Uncertainty	Kim Jae-Kyeong	G
17STUGM144	Frequency Support of HVDC through applying Droop and Inertia Controller	Kim Sehyun	G
17STUGM145	Economic Value of Model Enhancements in Transmission Planning Optimization for WECC	Xu Qingyu	G
17STUGM146	Integration of Energy System and Unit Commitment Models for Optimizing Mid-Term Generation Dispatch	Mulcahy David	G
17STUGM147	Resilient, Cyber Enabled Electric Energy and Water Infrastructures	Zuloaga Scott	G
17STUGM148	Data-Driven Joint Topology and Line Parameter Estimation for Renewable Integration	Yu Jiafan	G
17STUGM149	Causal and Stability Analysis Considering Unusual Phenomenon due to Model Parametric Uncertainty	Kim Jae-Kyeong	G
17STUGM150	Model Validation Based on Unbalanced Fault Records Using Three Phase Dynamics and Protection Simulator	Jianqiao Huang	G
17STUGM151	Optimal Placement of Distributed Energy Resources Using An Enhanced Genetic Algorithm	Tian Yuting	G

Smart Cities

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM152	Distributed Control Algorithm for Optimal Power Allocation of EV Parking Lots	Pourbabak	G
17STUGM153	Dynamic Management of Smart Outdoor Lighting for Providing Flexibility	Mahoor Mohsen	G
17STUGM154	Optimal Hybrid Microgrid Planning: The Integration of AC/DC Distributed Generations and Loads	Lotfi Hossein	G
17STUGM155	A Multivariate Ensemble Framework for Short Term Solar Photovoltaic Output Power Forecast	Raza Muhammad Qamar	G
17STUGM156	Supervisory Framework for Event Detection and Classification using Wavelet Transform	Singh Ajeet Kumar	G
17STUGM157	Total Optimization of Smart Community Using Sequence-Based Deterministic Initialization and K- Means Based Initial Searching Points Generation	Mayuko Sato	G

Smart Grid Technology

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM158	A New PMU Placement Algorithm to Meet a Specified Synchrophasor Availability	Sarailoo Morteza	G
17STUGM159	Coordinating Multi-microgrid Operation within Distribution System: A Cooperative Game Approach	Du Yan	G
17STUGM160	Participation of Electric Vehicle Parking Lots into Retail Electricity Market with eVoucher Mechanism	CHEN Tao	G
17STUGM161	Cost-Benefit Assessment Challenges for a Smart Distribution System: A Case Study	Lisha Sun	G
17STUGM162	Voltage-Based Protection Scheme for Faults Within Utility-Scale Photovoltaic Arrays	Saleh Khaled	G
17STUGM163	Standardized Matrix Modeling of Multiple Energy Systems	Wang Yi	G
17STUGM164	Operation Pattern Discovery via Mass Transmission Data in Bulk Grid	Xianzhuang	G
17STUGM165	Initial Work on Testing the Statistical Stationarity of Synchrophasor Measurements	Khan Md Arif	G
17STUGM166	Multi-Agent System Architecture for Enhanced Resiliency in Autonomous Microgrids	Lakshminarayanan Venkateswaran	G
17STUGM167	Feasibility of Quasi-dynamic IPT Systems at Traffic Signals for EV Applications	Mohamed Ahmed	G
17STUGM168	Microgrid Performance Evaluation Metrics for Planning and Operation in Distribution System	Ren Hongda	G
17STUGM169	Impact of Transmission Line Length on Dynamic Thermal Line Rating	Dawson Leanne	G
17STUGM170	Corrective Transmission Switching based Real-Time Contingency Analysis	Li Xingpeng	G
17STUGM171	Analysis of Electric Demand of Meiji University Nakano Campus Aimed at Local Generation and Local Consumption of Campus Town	Nakamura Masatoshi	G
17STUGM172	Load Frequency Control by Autonomous Distributed Control of Electric Vehicles	Magome Nozomu	G
17STUGM173	Fair Demand Response with Electric Vehicles for the Cloud-Based Energy Management Service	Chen Yu-Wen	G
17STUGM174	Bayes-based load disaggregation method for mixed temperature-sensitive and behavior-sensitive loads	Zhou Osama	G
17STUGM175	Stochastic Observer Design for a Microgrid under Cyber Disruptions	Khalghani Mohammad Reza	G
17STUGM176	Stochastic Planning of Energy Storage Systems Considering Dynamic Thermal Ratings	Ansari Osama	G

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM177	Optimization Smart Grid Architecture for Developing Countries	Abah Josephine	G
17STUGM178	Application of a Volt-Var control strategy using micro-phasor measurements to distribution networks with PV penetration	Dharmawardena Hasala	G
17STUGM179	Weather Variation and Climate Change Impacts on Power System	Chen Po-Chen	G
17STUGM180	Linear Autonomous Control of Electric Vehicles Charging in Distribution Systems	Faddel Samy	G
17STUGM181	Integrating Water Distribution Energy Flexibility in Power Systems Operation	Oikonomou Konstantinos	G
17STUGM182	Parallelization of Smart Grid Resource Allocation For Generating Multiple Days of Demand Response	Sharma Swagata	G

Smart Sensors, Communication and Control in Energy Systems

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM183	Distributed Microgrid Energy Optimization Using Transactive Control and Heuristic Strategy	Ji Minjie	G
17STUGM184	Transactive Control of Air Conditioning Loads for Mitigating Microgrid Tie-line Power Fluctuations	Yao Yao	G
17STUGM185	Online PMU Calibration and Line Parameter Estimation	Lackner Christoph	G
17STUGM186	Evaluating and Communicating Optimum Performance of Generator Loads	Stark Madison	UG
17STUGM187	Load Synchronization and Sustained Oscillations Induced by Transactive Control	Nazir Md Salman	G
17STUGM188	Robust Phase Detection in Distribution Systems	Modarresi M. Sadegh	G
17STUGM189	Location Forensic Application: Power Grid Signature Analysis for Location-Stamp Verification of Recorded Power and Audio Signals	Shoilie Chakma	G

Substation and Distribution Automation

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM190	Centralized Substation Protection and Control based on Distributed Signal Processing Units	Hohn Fabian	G

System-Wide Events and Analysis Methods

No.	Poster Title	Student Name (Last First)	UG/G
17STUGM191	Recovery of Simultaneous and Consecutive PMU Data Losses by Exploiting Low-rank Hankel Matrix	Yingshuai Hao	G
17STUGM192	A Novel Dynamic Phasor Based Interface Models for Hybrid Simulations of EMT and Transient Stability Models	Dewu Shu	G
17STUGM193	Online Generator Coherency Identification using Dynamic Time Warping	Ul Banna Hasan	G