Student Poster Competition

2023 IEEE PES General Meeting
Orlando, Florida USA
July 16-20, 2023

Poster Categories:

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

IEEE PES Student Activities Subcommittee
Sridhar Chouhan, Ph.D., Anthony Deese, Ph.D., Paras Mandal, Ph.D., and Luke Dosiek, Ph.D.

ID	Last Name	First Name	UG/Grad	Poster Title	Technical Area
STP001	Abdelaal	Mahmoud	Graduate	A Digital Twin-Based Approach for Fault Diagnosis and Performance Improvement of Complex PV System	Cyber & Physical Security of the Smart Grid
STP002	Abdelaal	Mahmoud	Graduate	Rule-Based Power and Energy Management System For Shipboard Microgrid With HESS To Mitigate Propulsion and Pulsed Load Fluctuations	Power System Modeling & Simulation
STP003	Abdelaziz	Sara	Graduate	Extreme Wind Gust Impact on UK Offshore Wind Turbines: Long-Term Return Level Estimation	Advanced Computational Methods for Power System Planning
STP004	Abraham	Olufemi	Graduate	Electricity Theft Detection for Smart Homes with Knowledge-Based Synthetic Attack Data	Cyber & Physical Security of the Smart Grid
STP005	Adohinzin	Oswald	Graduate	Cyber-Attack Exposure Analysis for DER Networks	Cyber & Physical Security of the Smart Grid
STP006	Affandy	Vanessa	Undergrad	The Power Play: Shocking Discoveries From School to Industry	Power Electronics
STP007	Afrasiabi	Shahabodin	Graduate	Probabilistic Data-Driven Pseudo-Measurement Model	Smart Sensors
STP008	Aghmadi	Ahmed	Graduate	Enhancing the Stability of a DC Microgrid Under Pulse Load using Hybrid Energy Storage Control Strategy	Operation & Control
STP009	Agnew Jr.	Dennis	Graduate	Distributed Software-Defined Network Architecture for Smart Grid Resilience to Denial-of-Service Attacks	Cyber & Physical Security of the Smart Grid
STP010	Akande	Liadi	Graduate	Suppressing the Net-load Duck-Curve with East-West Solar Array Orientation	Integrating Renewable Energy into the Grid
STP011	alassaf	khalid	Graduate	An impact study of grid connected devices on distribution system protection	Smart Grid Technology
STP012	Alexander	Brady	Graduate	Resilient Power Sharing in a 100% Inverter-Based Power System Under GPS Spoofing Attacks	Cyber & Physical Security of the Smart Grid
STP013	Alghumayjan	Saud	Graduate	Real-Time Locational Marginal Price Forecasting: A Transformer-Based Approach	Power System Modeling & Simulation

STP014	Ali	Ola	Graduate	Assessment of Inverter-Based Microgrid Control Performance Under Communication Latency Using Cyber-Physical Co-Simulation Platform	Dynamic Performance and Control of Power Systems
STP015	Allahmoradi	Sarah	Graduate	Risk-Averse Constrained Deep Reinforcement Learning Volt-Var Control in Unbalanced Modern Distribution Networks	Operation & Control
STP016	Aman	Sarah	Undergrad	Using Automation to Create an All-Members Screening Process	Power System Modeling & Simulation
STP017	Amani-Jouneghani	Farshad	Graduate	Quantum-Enhanced DC Optimal Power Flow	Power System Modeling & Simulation
STP018	Aryal	Tara	Graduate	Application of Neural Ordinary Differential Equations to Power System Frequency Dynamics	Dynamic Performance and Control of Power Systems
STP019	Aslami	Pooja	Graduate	Reinforcement Learning based Frequency Control for Power System Frequency Dynamics	Dynamic Performance and Control of Power Systems
STP020	Avila	Antonio	Graduate	Impact of Commercial EV Loads on the Power Grid with Efficiency Contingency Factors	Smart Grid Technology
STP021	Ayad	Abdelrahman	Graduate	Transmission and Distribution Systems Coordination using the Design Structure Matrix	Smart Grid Technology
STP022	Azimian	Behrouz	Graduate	PMU-Timescale Topology Identification of Sub-station Node-Breaker Models using Deep Learning	Operation & Control
STP023	Badakhshan	Sobhan	Graduate	Enhancing Grid Resilience Through Intentional Islanding by Reinforcement Learning on Graphs	Advanced Computational Methods for Power System Planning
STP024	Baek	Jongoh	Graduate	The Parameter Tuning Method for Synthetic Dynamic Models in Power Systems	Power System Modeling & Simulation
STP025	Bagga	Arnav	Graduate	Impact of Forced Oscillations on Transient Stability	Dynamic Performance and Control of Power Systems
STP026	Baghkarvasef	Maryam	Graduate	Dynamic Modeling and Real-Time Control of Hydropower Units for Frequency Regulation	Power System Modeling & Simulation
STP027	Bastianel	Giacomo	Graduate	Offshore Energy Islands: the newest candidate in Europe’s offshore grid development plans	Integrating Renewable Energy into the Grid

STP028	Bayat	Nasrin	Graduate	Particle Swarm Optimization Based Demand Response Using Artificial Neural Network Based Load Prediction	Market Interactions in Power Systems
STP029	Beard	Ashley	Graduate	Advanced Grid Operations with Real Time Machine Learning	Power System Modeling & Simulation
STP030	Belnap	Hollis	Graduate	Hydropower Generation Forecasting Using a Deep Learning LSTM Model	Advanced Computational Methods for Power System Planning
STP031	Bhattacharya	Souradeep	Graduate	A Reinforcement Learning based Defense Investment Strategy Optimization in Smart Grid	Cyber & Physical Security of the Smart Grid
STP032	Bhujel	Niranjan	Graduate	Soft Actor-Critic Based Voltage Support for Microgrids using Energy Storage System	Dynamic Performance and Control of Power Systems
STP033	Bunme	Pawita	Graduate	Solar Panels Installation Planning in Residential PV Systems Using GIS	Integrating Renewable Energy into the Grid
STP034	Cantor	Ethan	Graduate	Net-Zero Emission for Multi-Energy Campus System	Power System Modeling & Simulation
STP035	Chen	Jiaqi	Graduate	Data-driven Piecewise Linearization for Three-Phase Power Flow in Distribution Grids	Power System Modeling & Simulation
STP036	chen	liudong	Graduate	Saturation Effects in Equitable Demand Response Tariff Design	Market Interactions in Power Systems
STP037	Chen	Qifan	Graduate	Clustering-based Two-stage Probabilistic Small-signal Stability Analysis of Power Systems with Uncertainties	Advanced Computational Methods for Power System Planning
STP038	Chen	Xianbang	Graduate	Boosting Power System Operation Economics via Closed-Loop Predict-and-Optimize	Smart Grid Technology
STP039	Chen	Yuting	Graduate	Modified Eigen Decomposition based Interval Analysis (MEDIA) for Power System Dynamic State Estimation	Power System Modeling & Simulation
STP040	Cheng	Shuang	Graduate	Network Pricing for Multienergy Systems Under Long-Term Load Growth Uncertainty	Market Interactions in Power Systems
STP041	Cho	Young-ho	Graduate	Wind Power Scenario Generation Using Graph Convolutional Generative Adversarial Network	Integrating Renewable Energy into the Grid

STP042	Clark	Angel	Graduate	Stability Analysis of Virtual Synchronous Machine	Integrating Renewable Energy into the Grid
STP043	Cong	Chen	Graduate	Convexifying Market Clearing of SoC-Dependent Bids from Merchant Storage Participants	Market Interactions in Power Systems
STP044	Cooper	Austin	Graduate	Uncertainty Error Modeling for Non-Linear State Estimation With Unsynchronized SCADA and µPMU Measurements	Power System Modeling & Simulation
STP045	Cuello-Polo	Gustavo	Graduate	Integrating RTO and utility processes in planning and cost allocation	Advanced Computational Methods for Power System Planning
STP046	Cui	Wenqi	Graduate	Structured Learning for Optimal Frequency Control: Stability and Steady-State Economic Dispatch Guarantees	Dynamic Performance and Control of Power Systems
STP047	Cui	Xueyuan	Graduate	Privacy-Preserving Operation of Interconnected Distribution Networks with Soft Open Points	Smart Grid Technology
STP048	Dashtaki	Mohammad Ali	Graduate	Transient Stability Analysis of Grid-Forming Inverters with Power System Simulation	Dynamic Performance and Control of Power Systems
STP049	Dezvarei	Mojtaba	Graduate	A Vector autoregression Framework for Cybersecurity Analysis of Short-term Load Forecasting	Cyber & Physical Security of the Smart Grid
STP050	Diaz-Cachinero	Pablo	Graduate	Electric Vehicle Delivery Routing and Charging in Road Transportation and Power Distribution Systems	Power System Modeling & Simulation
STP051	Ding	Huazhao	Graduate	Operation Challenges of Hybrid Power Plants and Modeling Recommendations	Dynamic Performance and Control of Power Systems
STP052	Du	Mohan	Graduate	A Data-Driven Polynomial Chaos Expansion-Based Method for Microgrid Ramping Support Capability Assessment and Enhancement	Integrating Renewable Energy into the Grid
STP053	Du	Yuhan	Graduate	The Need for Equitable Coordination in Multi-agent Power Systems	Communication & Control in Energy Systems

STP054	Duan	Mengzhao	Graduate	A Group of Single-Ended Time-Domain Line Fault Location Methods Using Breaker Operation Information	Power System Modeling & Simulation
STP055	Ehsani	Diba	Graduate	Quantum-Powered Battery Scheduling	Advanced Computational Methods for Power System Planning
STP056	Elmogamer	Omer	Graduate	Optimizing Future Overhead Line Networks for Flexible and Resilient Operation	Flexible AC Transmission Systems
STP057	Elnasry	Mohamed	Graduate	Online Output-based Inertia Estimation of Modern Power Systems	Dynamic Performance and Control of Power Systems
STP058	Farley	Alex	Graduate	Equity-Aware Market Participation: A Framework to Relieve Energy Burden using Distributed Energy Resources	Market Interactions in Power Systems
STP059	Flores	Alberto	Graduate	Complete formulation of the capability curve of synchronous generators in OPF models	Power System Modeling & Simulation
STP060	Garland	Jasmine	Graduate	Power Outage Prediction from Historical Weather Data	Intelligent Monitoring & Outage Management
STP061	Gautam	Arnav	Graduate	Grid-Aware Tradeoff Analysis for outage mitigation microgrids at emerging Resilience Hubs	Power System Modeling & Simulation
STP062	Ge	Pudong	Graduate	Cyber-resilient self-triggered distributed control of networked MGs against multi-layer DoS attacks	Cyber & Physical Security of the Smart Grid
STP063	George	Deborah	Graduate	Virtual Real-Time Photovoltaic Power Plants	Emerging Software Needs for the Restructured Grid
STP064	Ghimire	Pallavi	Graduate	Voltage Support in Offshore Wind Farm Based on Model Predictive Control	Dynamic Performance and Control of Power Systems
STP065	Ghimire	Saugat	Graduate	Implementation of Real-time Oscillation Monitoring System Using SEL Synchrowave	System Wide Events & Analysis Methods
STP066	Ghimire	Sulav	Graduate	Control Interactions of Droop-based Grid-forming Converters in Weakly Connected Offshore WPPs	Dynamic Performance and Control of Power Systems

STP067	Girdhar	Mansi	Graduate	Systematic Cause & Consequence Identification for EVCS Accident Investigation	Smart Grid Technology
STP068	Goossen	Elijah	Graduate	Data Development and Composite Probabilistic Adequacy Evaluation	Advanced Computational Methods for Power System Planning
STP069	Gray	Nathan	Graduate	Bulk Power System Support from Collaborative Multi-Microgrid Systems	Communication & Control in Energy Systems
STP070	Greenough	Ryan	Graduate	Wildfire Resilient Battery Energy Storage Investments under Demand Uncertainty	Integrating Renewable Energy into the Grid
STP071	Guan	Zhongtao	Undergrad	Accurate Single-Ended Fault Location for Cable-OHL Hybrid Transmission Lines	Power System Modeling & Simulation
STP072	Guillen	Luis	Graduate	Inverter Voltage Support for Ac Heating and Fast Charging of Electric Vehicles	Power System Modeling & Simulation
STP073	Guo	Hui	Graduate	Generation Investment Equilibrium among Multiple GENCOs using Modified PMP	Advanced Computational Methods for Power System Planning
STP074	Guo	Muhao	Graduate	Sig2Vec: Dictionary Design for Incipient Faults in Distribution Systems	Intelligent Monitoring & Outage Management
STP075	Hamilton	Dakota	Graduate	Optimal Power Flow with Realistic Generator Capability Curves	Operation & Control
STP076	Hastings	Jacob	Graduate	Co-Simulation Based Wholesale Market Emulations	Market Interactions in Power Systems
STP077	Hossain	Rakib	Graduate	Soft Actor Critic Based Volt-VAR Co-optimization in Active Distribution Networks	Integrating Renewable Energy into the Grid
STP078	Hosseinipour	Ali	Graduate	A Data-Driven Framework for Sparse Impedance Identification of Power Converters in DC Microgrids	Power Electronics
STP079	Huang	Shuchen	Graduate	Analysis and Mitigation of Cascading Failure Spatial Propagation in Real Utility Outage Data	Operation & Control
STP080	Huo	Xiang	Graduate	Scalable and Privacy-Preserving Distributed Energy Resource Control Over Cloud-Edge Computing	Cyber & Physical Security of the Smart Grid

STP081	Hussein	Hossam	Graduate	Fuzzy-PI-Based Performance Analysis of Voltage Control for Microgrids	Communication & Control in Energy Systems
STP082	Hyonggu	Kang	Undergrad	Lag-Lead Compensator for Inner Current Control in Faulty AC Source Conditions for VSC-HVDC	Power System Modeling & Simulation
STP083	Iqbal	Ahsan	Graduate	Fast Perturbation-Based Extremum-Seeking Control for Frequency Support in Low Inertia Microgrids	Operation & Control
STP084	Jacob	Roshni	Graduate	Distribution Network Operation with Integrated Energy Systems: Modeling and Control Framework	Operation & Control
STP085	Jain	Akshay Kumar	Graduate	Detection of Falsified Commands on a DER Management System	Cyber & Physical Security of the Smart Grid
STP086	Jat	Chandra Kant	Graduate	Power Flow and Optimal Power Flow Models for Asymmetric HVDC Grids: A Julia-Based Open-Source Implementation	Power System Modeling & Simulation
STP087	Ji	Chanho	Graduate	The Necessity of Black Start using Inverter-Based Resources and a Comparative Analysis of Restoration Results with Synchronous Generators	Power System Modeling & Simulation
STP088	Jia	Linli	Graduate	An Enhanced Situational Awareness Tool for Resilience-Driven Restoration with DERs	Smart Grid Technology
STP089	Jiahao	Liu	Graduate	RoCoF Constrained Unit Commitment Considering Spatial Difference in Frequency Dynamics	Operation & Control
STP090	Jiang	Zhihao	Graduate	Probing-Based Inertia Estimation Method Using Hybrid Power Plants	Smart Grid Technology
STP091	Jin	Fengyuan	Graduate	Design of Dynamic Prices for Retailers Based on User Equilibrium	Smart Grid Technology
STP092	Kaewnukultorn	Thunchanok	Graduate	Impacts on Solar Inverter Response of Impedances in Electric Distribution Line with Grid Voltage Oscillation	Integrating Renewable Energy into the Grid
STP093	Kataria	Karan	Graduate	A Novel Noise Resilient Coherent Group Identification using Mode Phase Difference	Dynamic Performance and Control of Power Systems
STP094	Kaur	Devinder	Graduate	Interval-Based Individual Household Load Forecasting Using Bayesian Deep Learning	Advanced Computational Methods for Power System Planning

STP095	KC	Menuka	Graduate	Simulation of Forced Oscillation and Study of Resonance in 240-Bus System	System Wide Events & Analysis Methods
STP096	Kebudi	Carlos	Graduate	Optimal Wind Farm Layout with Bastankhah Model	Integrating Renewable Energy into the Grid
STP097	Khakpoor	Mostaan	Graduate	A Physics Informed Neural Networks Approach to Detect Faults in DC Microgrids	Power System Modeling & Simulation
STP098	Khan	Rabia	Graduate	Optimal Power Sharing in DC Microgrids for Rural Electrification	Power System Modeling & Simulation
STP099	Kharchouf	Ibtissam	Graduate	DoS and DM Cyber-attacks in Digital Substation: Impact Analysis	Cyber & Physical Security of the Smart Grid
STP100	Kim	Beopsoo	Graduate	A Study of Synchronous Generator Control Using Lyapunov's Function Based Controller	Power System Modeling & Simulation
STP101	Kim	Dongjoo	Graduate	Reinforcing Fault Diagnostic Classification Model using DCGAN-based Synthetic Images	Asset Management
STP102	Kim	Jeonghwan	Undergrad	HILs for wind turbine design based on deep learning	Power System Modeling & Simulation
STP103	Kim	Seonghan	Undergrad	A Study on Performance Assessment of Co-located Synchronous Condenser and IBR	Power System Modeling & Simulation
STP104	Kim	Sungjun	Undergrad	Investigation and Comparison of Phasor and EMT-based Models for Inverter-based Resources	Power System Modeling & Simulation
STP105	Kiplagat	Japheth	Undergrad	Efficient and Low Cost Technique for Converting Solid Waste to Bioenergy in Urban Centers	Integrating Renewable Energy into the Grid
STP106	Kork Schmitt	Konrad Erich	Graduate	Investigating Protection Challenges on Distribution Systems Self-Healing	Intelligent Monitoring & Outage Management
STP107	Krpan	Matej	Graduate	Low-Order System Frequency Response Model of a Low-Inertia Power System	Power System Modeling & Simulation
STP108	Lamichhane	Bishal	Graduate	Towards Sustainable Marine Transportation: Greenhouse Gas and Acoustic Emission Reduction	Advanced Computational Methods for Power System Planning
STP109	Lamichhane	Shishir	Graduate	Investment Planning to Enhance Resilience of Power Systems against Extreme Weather Events	Advanced Computational Methods for Power System Planning

STP110	Lee	JeeHoon	Graduate	Secondary Control of Multi-Terminal DC Systems Incorporating Center of DC Voltage and Power Sharing	Operation & Control
STP111	Lee	JoonHee	Undergrad	Robust Optimization Scheduing of Virtual Power Plants Considering Reserve Service.	Market Interactions in Power Systems
STP112	Lee	Yuseok	Graduate	Analysis of the Contribution of Thermal Energy Storage to Increasing CHP Flexibility	Power System Modeling & Simulation
STP113	Lei	Chao	Graduate	Dynamic Ramping of Retrofitted Coal-Fired Power Plants: Basic Formulation and Tightened Approximation	Operation & Control
STP114	Li	Chenchen	Graduate	Comprehensive Optimization Model for Siting and Sizing of DG Units and Shunt Capacitors Considering Uncertain Fault Risk	Operation & Control
STP115	Li	Guan-Yi	Graduate	A Comparative Study of AI-Based Models for Incipient Fault Classification in Power System	Intelligent Monitoring & Outage Management
STP116	Li	Ke	Graduate	Coordination of Power and Transportation Networks: An Inverse Optimization Based Pricing Approach	Smart Grid Technology
STP117	Li	Meiyi	Graduate	Learning to Optimize Distributed Optimization: ADMM-based DC-OPF Case Study	Advanced Computational Methods for Power System Planning
STP118	Li	Zhaoyu	Undergrad	Real-time pricing and dispatch of virtual power plants using a DDPG-based approach with data-driven behavior estimation	Asset Management
STP119	Liaquat	Sheroze	Graduate	Peer-to-Peer Trading Platform Incorporating Demand Response Paradigm Using an Iterative Two-Stage ADMM Approach	Market Interactions in Power Systems
STP120	Liu	Ruohong	Graduate	Laxity-Aware Scalable Reinforcement Learning for Building HVAC Control	Operation & Control
STP121	Liu	Shaohui	Graduate	Forced Oscillation Localization using PMU Data based on Recovered Dynamic Responses	System Wide Events & Analysis Methods
STP122	Liu	Siyu	Undergrad	Advisory Tool for Managing Failure Cascades in Systems with Wind Power	Intelligent Monitoring & Outage Management

STP123	Liu	Weipeng	Graduate	Model Predictive Control Based Voltage Regulation Strategy Using Wind Farm as Black-Start Source	Smart Grid Technology
STP124	Lu	Jin	Graduate	Annual Benefit Analysis of Integrating the Seasonal Hydrogen Storage into the Renewable Power Grids	Power System Modeling & Simulation
STP125	Lu	Zelong	Graduate	Peer-to-Peer Joint Electricity and Carbon Trading with Carbon-aware Distribution Locational Marginal Pricing	Market Interactions in Power Systems
STP126	Lyu	Cheng	Graduate	A Novel Probabilistic Solar Generation Forecast Model Based on Copula Theory	Integrating Renewable Energy into the Grid
STP127	Mahdavi	Shahrzad	Graduate	Predictive Coordinated and Cooperative Voltage Control for Systems with High Penetration of PV	Integrating Renewable Energy into the Grid
STP128	Mahroobakhtiari	Reza	Graduate	Trainable Variational Quantum-Multiblock ADMM Algorithm for Generation Scheduling	Advanced Computational Methods for Power System Planning
STP129	Maiz	Santiago	Graduate	Expansion Planning of a Virtual Power Plant by Coalition with Decentralized Energy Resources	Advanced Computational Methods for Power System Planning
STP130	Majidi	Majid	Graduate	Dynamic Matching in Power Systems with Deep Reinforcement Learning	Power System Modeling & Simulation
STP131	Manoharan	Arun Kaarthick	Graduate	Evaluating the Impact of Electric Vehicle Charging & Demand Management on Rural Kansas Grid: An Integrated Transmission & Distribution Analysis	Integrating Renewable Energy into the Grid
STP132	Markovic	Marija	Graduate	Model-Free Approaches for Improving Situational Awareness in Low-Observable Distribution Systems	Smart Grid Technology
STP133	Matamala	Carlos	Graduate	Provision of Energy and Frequency Containment Ancillary Services in Unit Commitment	Market Interactions in Power Systems
STP134	Maurya	Mukesh	Graduate	Real-Time Analysis of the Grid and PV Integrated Isolated EV Charging Station	Integrating Renewable Energy into the Grid
STP135	McCornack	Benjamin	Graduate	Loss minimization through local Volt-Var control	Integrating Renewable Energy into the Grid
STP136	Melagoda	Adithya	Graduate	Analyzing the Impact of Distributed Energy Resources on Bulk Power Systems	Integrating Renewable Energy into the Grid

STP137	Menati	Ali	Graduate	Optimization of Cryptocurrency Miners' Participation in Ancillary Service Markets	Market Interactions in Power Systems
STP138	Minter	Zachary	Graduate	Simulation Studies on Slack Participation in Distribution Systems with Expanded DER Penetration	Power System Modeling & Simulation
STP139	Mohammadhassani	Ardavan	Graduate	Resilient Power Sharing in a 100% Inverter-Based Power System Under GPS Spoofing Attacks	Cyber & Physical Security of the Smart Grid
STP140	Mohammadian	Mostafa	Graduate	Gradient-Enhanced Physics-Informed Neural Networks for Power Systems Operational Support	Operation & Control
STP141	Moon	Jaemin	Graduate	Minimum Capacity of Fast Frequency Reserve to Maintain Grid Frequency of Korea Power System	Dynamic Performance and Control of Power Systems
STP142	Moshtagh	Shiva	Graduate	Time-Synchronized State Estimation Using Graph Neural Networks in Presence of Topology Changes	Intelligent Monitoring & Outage Management
STP143	Mousavi	Mohammad	Graduate	An Efficient Algorithm for Solving ISO-DSO Coordination Parametric Programming Problem	Market Interactions in Power Systems
STP144	Movahednia	Mohadese	Graduate	Strategic Transmission-Distribution Coordination for Enhancing Substations Resiliency to Flood Hazards	Operation & Control
STP145	Najafi	Soroush	Graduate	Chance Constraint Co-Optimization of Volt/Var and Demand Response in Distribution Networks	Operation & Control
STP146	Nakayama	Shuntaro	Graduate	Factor Analysis of JEPX Spot Prices Fluctuation using GIS	Market Interactions in Power Systems
STP147	Nematirad	Reza	Graduate	Designing an Optimal Photovoltaic System for Peak Demand Reduction	Integrating Renewable Energy into the Grid
STP148	Newbolt	Travis	Graduate	Reliability Analysis of DWPT Electric Vehicle Charging in Electrified Transportation Networks	Power System Modeling & Simulation
STP149	Nguyen	Sabrina	Graduate	Leveraging Battery Storage and Solar for Reliability and Peak Shaving in Rural Circuits	Integrating Renewable Energy into the Grid
STP150	Olowolaju	Joshua	Graduate	Robust Voltage-Reactive Power Support using GAN-DRL Architecture for Grids with IBRs	Operation & Control
STP151	Ortiz	Axel	Graduate	Oscilating water column as a solution for Puerto Rico energy and coastal infrastructure resilience	Integrating Renewable Energy into the Grid
STP152	Panamtash	Hossein	Graduate	OUC Gardenia Grid Integration Laboratory: Overview and implementation	Integrating Renewable Energy into the Grid

STP153	Parvini	Zohreh	Graduate	Model reduction and translation for coordinated expansion planning studies	Advanced Computational Methods for Power System Planning
STP154	Pei	Yansong	Graduate	Two-Agent Deep Reinforcement Learning for Realistic Distribution System Voltage Control and Peak Load Demand Shaving	Operation & Control
STP155	Peterson	Mary	Undergrad	Economic Valuation of Community and Rooftop Solar for Rural Area Considering Infrastructure Improvements	Integrating Renewable Energy into the Grid
STP156	Pissinatto Cancian	Bruno	Graduate	A Data-Driven SVM-Based Method for Detection and Capacity Estimation of BTM PV Systems	Integrating Renewable Energy into the Grid
STP157	Poh	Wesley	Graduate	Data-Driven Estimation of Li-Ion Battery Health using a Truncated Time-based Indicator and LSTM	Intelligent Monitoring & Outage Management
STP158	Ponce	Giovanni	Undergrad	Energy Management of PV-Wind-BESS Hybrid Microgrid System Using Model Predictive Control	Integrating Renewable Energy into the Grid
STP159	Poore	Steven	Undergrad	Distribution Systems with Smart Homes Employing PV, Electric Battery, and HVAC Energy Storage	Smart Grid Technology
STP160	Poudel	Bidur	Graduate	Data-driven Scalable Emulation of Hydropower Using Real-time Hardware-in-the-Loop	Power System Modeling & Simulation
STP161	Poudel	Samip	Graduate	Dynamic Modeling of Offshore Wind with Data-Driven Approach using Neuromancer	Dynamic Performance and Control of Power Systems
STP162	Purohit	Shaurya	Graduate	Game-theoretic Optimization of Cybersecurity Investment Strategies for Electric Vehicle Charging Stations using Attack Defense Trees	Cyber & Physical Security of the Smart Grid
STP163	Putri	Saskia	Graduate	MIMO Model Predictive Control for Demand Management in Islanded Water-Energy Microgrids	Operation & Control
STP164	Qiu	Jin hao	Undergrad	Protection of Multi-Terminal Hybrid Transmission Lines Based on Dynamic States Estimation	Power System Modeling & Simulation
STP165	Qu	Jiawei	Undergrad	A Lagrange-multiplier-based Reliability Assessment for Power Systems Considering Topology and Injection Uncertainties	Advanced Computational Methods for Power System Planning

STP166	Radhoush	Sepideh	Graduate	Data-driven Distribution State Estimation in Active Distribution Networks	Power System Modeling & Simulation
STP167	Rafin	S M Sajjad Hossain	Graduate	PM-Assisted Sub-Harmonic Synchronous Machine	Electric Machines and Drives
STP168	Rafy	Md Fazley	Graduate	Distributed Control and Testbed Validation for Cyber-Power Distribution System Security and Resiliency	Cyber & Physical Security of the Smart Grid
STP169	Rahman	Jubeyer	Graduate	Steady-state Multi-timescale Modeling and Operation of Small Modular Reactors	Power System Modeling & Simulation
STP170	Rai	Astha	Graduate	Data-Driven Model Predictive Control for Fast-Frequency Support	Power System Modeling & Simulation
STP171	Rajendran	Sarangan	Graduate	Effect of Solar PV-Battery Storage Configurations in the Locational Value Assessment of DERs	Power System Modeling & Simulation
STP172	Ramirez Orrego	Jorge	Graduate	Security-Constrained AC Unit Commitment Via Decomposition	Power System Modeling & Simulation
STP173	Ratnakumar	Rajan	Graduate	Δ-AGC for Improved Power System Electromechanical Oscillation Damping	Dynamic Performance and Control of Power Systems
STP174	Ren	Junzhi	Graduate		Operation & Control
STP175	Ren	Weihang	Graduate	Battery Bidding Strategy under Uncertainty Considering Market Practical Situations	Market Interactions in Power Systems
STP176	Retna Kumar	Aravind	Graduate	Quantifying the Benefits from Virtual Power Plants under Uncertainty in PJM Interconnection	Power System Modeling & Simulation
STP177	Rodriguez	Luis	Graduate	HydroFlex: Maximizing the Economic and Environmental Benefits of Hydropower Generation	Integrating Renewable Energy into the Grid
STP178	Rodriguez	Ryan	Undergrad	Portable Power Station with Several Source of Energy for Emergencies	Integrating Renewable Energy into the Grid
STP179	Saad Karsani	Ahmed	Graduate	Synthesizing Inertia through the Concept of Virtual Frequency	Dynamic Performance and Control of Power Systems
STP180	Sahoo	Satyaprajna	Graduate	Data-Driven Flow and Injection Estimation in PMU-Unobservable Transmission Systems	Intelligent Monitoring & Outage Management
STP181	Sajjadi	Mahsa	Graduate	Estimation of Participation Factors Using the Synchrosqueezed Wavelet Transform	Dynamic Performance and Control of Power Systems

STP182	Sayyeda	Umbereen Bano	Graduate	MLE Based Nearest Neighbour Algorithm For Real-Time Transient Stability Assessment	Dynamic Performance and Control of Power Systems
STP183	Selim	Alaa	Graduate	Open Source Tool for Dynamic Simulations in Electrical Distribution Systems	Dynamic Performance and Control of Power Systems
STP184	She	Buxin	Graduate	Real-time Economic Dispatch of IBR-penetrated Power Systems Considering Virtual Inertia Scheduling	Integrating Renewable Energy into the Grid
STP185	Shen	Daniel	Graduate	Valuing Uncertainties in Wind Generation: An Agent-Based Optimization Approach	Market Interactions in Power Systems
STP186	Shi	Ranyu	Graduate	Synthetic Human-in-the-loop Residential Demand Response Data Generation	Market Interactions in Power Systems
STP187	Shiuab	Salman Siddique	Graduate	Detection and Analysis of Oscillations Using SCADA Data	System Wide Events & Analysis Methods
STP188	Siddiquee	S M Shahnewaz	Graduate	A Multi Criteria Based Decision Framework for Industrial Hybrid Renewable Energy System Sizing	Integrating Renewable Energy into the Grid
STP189	Singh	Diksha	Graduate	Enhancing Grid Resilience Using Electric Vehicles	Integrating Renewable Energy into the Grid
STP190	Sohrabbeig	Amirhossein	Graduate	Long-Term Photovoltaic Power Generation Forecasting	Advanced Computational Methods for Power System Planning
STP191	Soliman	Ahmed	Graduate	Intelligent Controls for AC/DC Power Converters in Hybrid Power Distribution Networks	Dynamic Performance and Control of Power Systems
STP192	Stuhlmacher	Anna	Graduate	Assessing the Resilience of an Optimal Water Pumping Strategy to Provide Frequency Regulation	Smart Cities
STP193	Su	Jinshun	Graduate	A Risk-Averse Model for Balancing Wildfire Risks and Power Outages due to Public-Safety Power-Shutoff	Smart Grid Technology
STP194	Su	Poen	Graduate	Incorporating Probabilistic Forecasting Result into Unit Commitment	Integrating Renewable Energy into the Grid
STP195	Su	Tong	Graduate	Analytic Input Convex Neural Networks-based Model Predictive Control for Power System Transient Stability Enhancement	Operation & Control

STP196	Subedi	Sunil	Graduate	Automated Data-Driven Model Extraction and Validation of Grid-Tied Smart Inverters Dynamics with Grid Support Function	Power System Modeling & Simulation
STP197	Sun	Haoyuan	Graduate	Inverter-Based Resources Model Verification Using Electromagnetic Transient Playback Simulation	Power System Modeling & Simulation
STP198	Sun	Yimeng	Graduate	A Risk-Sensitive Operation and Schedule Model for Ride-Hailing Fleet in Order Grabbing Mode	Smart Grid Technology
STP199	Tabassum Trisha	Tambiara	Graduate	Cyber-Attack Detection in AC Microgrid Based on Unsupervised Machine Learning Based Algorithm	Cyber & Physical Security of the Smart Grid
STP200	Tan	Ben	Undergrad	Time-varying Inertia Estimation for Inverter-based Resources	Power System Modeling & Simulation
STP201	Tang	Qinghu	Graduate	Bidding Behavior Forecasting in Electricity Markets Based on Machine-Learning Methods	Market Interactions in Power Systems
STP202	Theisen	John	Graduate	Standards Based Data Integration for Utilities	Power System Modeling & Simulation
STP203	TianYuan	Xu	Graduate	Coordinated Planning Strategies of Power Systems and Energy Transportation Networks for Resilience Enhancement	Power System Modeling & Simulation
STP204	Trujillo	Marena	Graduate	Operability of a Power System with Synchronous Condensers and Grid-Following Inverters	Dynamic Performance and Control of Power Systems
STP205	Urs	Rahul Rajeevkumar	Graduate	Sensitivity Analysis on Green Hydrogen as Energy Storage: A Techno-Economic Case study	Integrating Renewable Energy into the Grid
STP206	Vahedi	Soroush	Graduate	A Temperature-Informed Data-Driven Approach for Behind-the-Meter Solar Disaggregation	Integrating Renewable Energy into the Grid
STP207	Valencia Zuluaga	Tomas	Graduate	Cost Sharing Mechanism with Statistical Learning for Peer-to-Peer Energy Trading (This poster is on the same paper that was accepted for the general session)	Market Interactions in Power Systems
STP208	Varghese	Sushant	Graduate	Multi-Interval Real-Time Dispatch With High Renewable Penetration: Impacts on Generator Investment Incentives in PJM in 2050	Market Interactions in Power Systems
STP209	Vemalaiah	Kasi	Graduate	An Energy Efficient Network Reconfiguration in Active Distribution Network by Incorporating Losses from Converter-Based DGs	Operation & Control

STP210	Vijay Iswaran	Giritharan	Graduate	Developing an Equivalent Reduced Feeder Model for Power System Studies	Power System Modeling & Simulation
STP211	Walters	Michael	Undergrad	Data-Driven Approaches for Digital Twinning of a Solar Photovoltaic Plant	Emerging Software Needs for the Restructured Grid
STP212	Wang	Haoyi	Graduate	Online Model-Free Chance-Constrained Distribution System Voltage Control using DERs	Power System Modeling & Simulation
STP213	Wang	Jiahua	Graduate	Capacity Expansion Planning for wind Power Based on Data-Driven Approximation Approach	Integrating Renewable Energy into the Grid
STP214	Wang	Jinning	Graduate	Electricity Consumption Variation versus Economic Structure during COVID-19 on MSA in US	System Wide Events & Analysis Methods
STP215	Wang	Lizhi	Graduate	Learning-Based, Safety and Stability-Certified Microgrid Control	Dynamic Performance and Control of Power Systems
STP216	Wang	Shen	Graduate	Comparison of Accuracy of Capacity Credit Definitions for Resource Adequacy Accreditation	Power System Modeling & Simulation
STP217	Wang	Weilun	Graduate	A Bilevel EV Charging Station and DC Fast Charger Planning Model for Highway Network Considering Dynamic Traffic Demand and User Equilibrium	Smart Grid Technology
STP218	Wang	Xiaofei	Graduate	Profit-Oriented BESS Siting and Sizing in Deregulated Distribution Systems	Market Interactions in Power Systems
STP219	Wang	Xuao	Graduate	Defense Against Dynamic Residential Load Demand Attack Using Robust Multi-Agent Reinforcement Learning and Game Theory	Cyber & Physical Security of the Smart Grid
STP220	Wang	Yuling	Graduate	Reinforcement Learning Based Voltage Control Using Multiple Control Devices	Operation & Control
STP221	Wang	Zhen	Graduate	A Practical Urban Distribution Network Planning Method with Geographic Information System	Advanced Computational Methods for Power System Planning
STP222	Wanjoli	Paul	Graduate	Voltage Stability Analysis of a Weak Power System involving DERs – A Bayesian Parameter Estimation Approach	Advanced Computational Methods for Power System Planning

STP223	Wei-Yun	Huang	Graduate	Improved Solution Procedure for Power Quality Assessment of Nonstationary Waveforms	System Wide Events & Analysis Methods
STP224	Weng	Yu	Graduate	Asymmetrically Reciprocal Effects and Congestion Management in TSO-DSO Coordination through Feasibility Regularizer	Market Interactions in Power Systems
STP225	Wilkerson	Celina	Graduate	Deep Reinforcement Learning for Cybersecurity of Distributed Energy Resources	Cyber & Physical Security of the Smart Grid
STP226	Wilson	Vince	Graduate	Load Shifting for HVACR Systems Using Automated Demand Response and Interpolative Precooling	Smart Grid Technology
STP227	Winner	Calla	Undergrad	Carbon Emissions Resulting from Different Power Flow Models	Power System Modeling & Simulation
STP228	Wu	Jiaqi	Graduate	Learn Dynamic Hosting Capacity Based on Voltage Sensitivity Analysis	Integrating Renewable Energy into the Grid
STP229	Wu	Shengyang	Graduate	Interpretable Detection and Localization of False Data Injection Attacks Based on Causal Learning	Cyber & Physical Security of the Smart Grid
STP230	Xiao	Chenhan	Graduate	Distribution Grid Line Outage Detection with Privacy Data	Cyber & Physical Security of the Smart Grid
STP231	Xie	Yuhao	Graduate	Improved Fault Phase Selection Scheme for Lines Terminated by Inverter Based Resources	Cyber & Physical Security of the Smart Grid
STP232	Yan	Rudai	Graduate	A Graph Attention Network Based Reinforcement Learning Method for Optimal Distributed Frequency Control of an Islanded AC Microgrid	Dynamic Performance and Control of Power Systems
STP233	Yang	Jonathan	Undergrad	Sensitivity Analysis of Climate Information on LSTM-based ERCOT Load Forecasting	Power System Modeling & Simulation
STP234	Yang	Ruizhang	Graduate	Probabilistic Lifecycle Costing Evaluation for Configuration of Transformers in High-Speed Railway Based on Optimal KDE	Advanced Computational Methods for Power System Planning
STP235	Yao	Ruiyang	Graduate	A Novel Searchable Encryption Scheme for Smart Grid Data Sharing	Cyber & Physical Security of the Smart Grid

STP236	Ye	Ketian	Graduate	DeepONet Based Uncertainty Quantification for Power System Dynamics with Stochastic Loads	Dynamic Performance and Control of Power Systems
STP237	Yeon	Jang	Undergrad	Predicting Monthly Load of a Power System Using conbined CNN, LSTM, and GRU Models	Power System Modeling & Simulation
STP238	Yoo	Byungchan	Undergrad	Design of Passive Filters for considering Voltage Stability in a Renewable Energy Integrated Network	Power System Modeling & Simulation
STP239	Yu	Sijia	Graduate	Scalable and Lightweight Distributed Local Routing for Quantum Network-Based Microgrids	Advanced Computational Methods for Power System Planning
STP240	Yuan	Jingyi	Graduate	Invertible Neural Network for Consistent State Estimation in Distribution Grid with Unobservability	Power System Modeling & Simulation
STP241	Yun'an	Xu	Graduate	Fault Location on Distribution Cables Using Traveling Waves: a Field Data Study	Power System Modeling & Simulation
STP242	Zaboli	Aydin	Graduate	A Short-term Load Forecasting Methodology for Behind-the-Meter DERs based on Machine Learning	Integrating Renewable Energy into the Grid
STP243	Zare-Afifi	Farzan	Graduate	Computationally efficient strategy for power systems planning in solar-dominant grids	Advanced Computational Methods for Power System Planning
STP244	Zeinal Kheiri	Sevda	Graduate	Integrating the Energy Flexibility of Variable Speed Heat Pump in Home Energy Management Systems	Smart Grid Technology
STP245	Zhang	Ling	Graduate	An Efficient Neural Solver for Two-Stage DC Optimal Power Flow with Guaranteed Feasibility	Operation & Control
STP246	Zhang	Qian	Graduate	Scenario-based Economic Dispatch Under Conditional Wind Power Forecast Error	Integrating Renewable Energy into the Grid
STP247	Zhang	Yadong	Graduate	Graph neural networks for risk-informed power grid operation	Operation & Control
STP248	Zhang	Zhenyu	Graduate	Online correction of multi-scene load model parameters based on measured data	Power System Modeling & Simulation
STP249	Zhang	Zhongxia	Graduate	Real-Time Locational Marginal Price Forecast: A Decision Transformer-Based Approach	Market Interactions in Power Systems

STP250	Zhao	Chunyang	Graduate	Degradation and Thermal Runaway Prognosis Based on Real-world Battery Operation Records	Intelligent Monitoring & Outage Management
STP251	Zhao	Cunzhi	Graduate	Hierarchical Deep Learning Model for Degradation Prediction per Look-Ahead Scheduled Battery Usage Profile	Power System Modeling & Simulation
STP252	Zhao	Yuqi	Graduate	Cost-effective Harmonic Estimation in Medium Voltage Distribution Networks	Power System Modeling & Simulation
STP253	Zhong	Zhiming	Graduate	Strategic Bidding of Hydroelectric Producer in Integrated Energy and Reserve Market	Integrating Renewable Energy into the Grid
STP254	Zhu	Qi	Undergrad	Event-Driven Non-Invasive Multi-Core Cable Current Monitoring Based on Sensor Array	Communication & Control in Energy Systems
STP255	Zintsmaster	Daniel	Undergrad	Hardware Implementation of DC Protection Algorithms	Power Electronics
STP256	Ziyue	Duan	Graduate	Large-signal Stability Analysis Using Takagi-Sugeno Fuzzy Model Theory for Fractional Frequency Transmission System	Flexible AC Transmission Systems
STP257	Zuckerman	Keith	Graduate	Distribution System State Estimation with Time-Delayed Measurements	Communication & Control in Energy Systems
STP258	Zunnurain	Izaz	Graduate	Real-time Charging Scheduling for Electric Vehicle Aggregators in the Ancillary Service Market	Market Interactions in Power Systems
STP259	Zhu	Yuxuan	Graduate	Power Network Facult Location Based on Voltage Magnitude Measurements and Sparse Estimation	Intelligent Monitoring & Outage Management