



Student Poster Competition

2022 IEEE PES Transmission and Distribution
2022 IEEE PES Innovative Smart Grid Technologies
New Orleans, LA USA
April 25-28, 2022

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
- 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., Valentina Cecchi, Ph.D., Paras Mandal, Ph.D., and Luke Dosiek, Ph.D.

#	Last Name	First Name	UG/Grad	Title	Research Area	Conference
SC01	Izadi	Milad	Graduate	Applications of Time Synchronized Waveform Measurements for Advanced Situational Awareness	System Wide Events & Analysis Methods	T&D
SC02	Khoshjahan	Mohammad	Graduate	Blockchain Implementation for DER Visibility and Transaction Verification in Wholesale Market	Market Interactions in Power Systems	T&D
SC03	Gautam	Mukesh	Graduate	A Spanning Tree-based Genetic Algorithm for Distribution Network Reconfiguration	Operation & Control	T&D
SC04	Huang	Jianqiao	Graduate	A Scalable Method for Semidefinite Programming Based Distribution System State Estimation	Advanced Computational Methods for Power System Planning	T&D
SC05	Kork Schmitt	Konrad Erich	Graduate	Centralized Approach of Self-Healing for Distribution Systems Restoration	Smart Grid Technology	ISGT
SC06	Iqbal	Talha	Graduate	Improving Security Constrained Unit Commitment Problem Using Pattern Recognition	Advanced Computational Methods for Power System Planning	T&D
SC07	Zanin Bertoletti	Augusto	Graduate	Wildfire Smoke and Renewable Energy – Examining the Impacts of the 2020 Wildfire Season in the Pacific Northwest	Integrating Renewable Energy into the Grid	T&D
SC08	Abbas	Akintonde	Graduate	Comparison Between Grid-Scale Batteries and Flexible Loads for Combined Value-Added Services	Advanced Computational Methods for Power System Planning	T&D
SC09	Abbate	Emily	Graduate	Comparison Between Social Vulnerability and Power Outage Duration During Extreme Storms	System Wide Events & Analysis Methods	T&D
SC10	Siddiquee	S M Shahnewaz	Graduate	Quantifying Demand Response Participation Benefit of Industrial Consumers from Smart Meter Data	Smart Grid Technology	ISGT
SC11	Hamilton	Dakota	Graduate	Feeder Restoration with Inverter-Interfaced Distributed Energy Resources	Operation & Control	T&D
SC12	Bhatta	Rab	Graduate	Feasibility of a Real-world Test Microgrid Facility to Provide Economic and Resiliency Benefits in Extreme Weather Conditions	Integrating Renewable Energy into the Grid	ISGT
SC13	Westman	Jan	Graduate	Testing and Analysis of Grid Forming Inverter Control for Achieving Resilient and Economic Operation of an Islanded Microgrid	Integrating Renewable Energy into the Grid	T&D
SC14	Alden	Rosemary	Graduate	Simulation of Smart Home Loads for Large Scale DR and VPP Studies using Synthetic Data from Hybrid ML Black Box Models	N/A	T&D
SC15	Zhao	Cunzhi	Graduate	Quantitative Analysis of Demand Response Using Thermostatically Controlled Loads	Power System Modeling & Simulation	ISGT
SC16	Farokhi Soofi	arash	Graduate	Investigating the Impact of Electric Vehicles on the Voltage Profile of Distribution Networks	Integrating Renewable Energy into the Grid	ISGT
SC17	Barry	Nicholas	Graduate	A Resilience Evaluation Concept for Permanently Islanded Military Nanogrids	Operation & Control	ISGT

SC18	Muthukaruppan	Valliappan	Graduate	Overloading Analysis of Distribution Transformers using Smart Meter Data	Asset Management	ISGT
SC19	Hyder	Burhan	Graduate	Machine Learning-based Cyber-Physical Anomaly Detection in Wide Area Voltage Control Systems	Cyber & Physical Security of the Smart Grid	ISGT
SC20	Lewis	Donovin	Graduate	Grid Impact Studies for Dynamic Wireless Charging of Moving Electric Vehicles	Smart Grid Technology	T&D
SC21	Mansouri Habibabadi	Mohammad	Graduate	A N4SID-based Algorithm to Locate Source of Harmonics and subharmonics in Power Systems	Dynamic Performance and Control of Power Systems	T&D
SC22	Koch	Robert	UG	Comparative Analysis of Digital Secondary Solutions Applied to a Transmission Substation	Operation & Control	T&D
SC23	Abdelkhalek	Moataz	Graduate	ML-based Anomaly Detection System for DER Communication in Smart Grid	Cyber & Physical Security of the Smart Grid	ISGT
SC24	Movahednia	Mohadese	Graduate	Power Grid Resilience Enhancement via Operational Substation Hardening Against Flood Hazards	Operation & Control	T&D
SC25	Alanzi	Mataz	Graduate	Synchrophasors-based Master State Awareness Estimator for Cybersecurity in Distribution Grid: Testbed Implementation & Field Demonstration	Cyber & Physical Security of the Smart Grid	ISGT
SC26	Agarwal	Kartavya	Graduate	Hyper Efficient Appliance for Energy Access: Smart Electric Cookstove	Smart Grid Technology	ISGT
SC27	Mahroobakhtiari	Reza	Graduate	Distributed Solution for Dynamic Robust TEP	Advanced Computational Methods for Power System Planning	T&D
SC28	Jones	Stewart	Graduate	Large Scale Simulation of Electric Power Distribution VPP Controls with Detailed Models for Building HVAC Systems	Power System Modeling & Simulation	T&D
SC29	Gong	Huangjie	Graduate	Distribution Power System Level DR and Detailed Modeling for Electric Water Heaters with CTA-2045 Controls	Dynamic Performance and Control of Power Systems	T&D
SC30	Hossain	Rakib	Graduate	Deep Reinforcement Learning-based Volt-Var Optimization in Distribution Grids	Integrating Renewable Energy into the Grid	ISGT
SC31	Yan	Decheng	Graduate	Study of Active Line Flow Constraints in DC Optimal Power Flow Problems	Advanced Computational Methods for Power System Planning	T&D
SC32	Meraj	Fouad	Graduate	Topology-aware Learning Assisted Branch and Ramp Constraints Screening for Dynamic Economic Dispatch	Advanced Computational Methods for Power System Planning	T&D