SusTech2020

VIRTUAL Program Schedule

Paper Sessions & Keynotes – Friday & Saturday April 24-25

Time	Friday, April 24		Time	Saturday, April 25	
8:00 am – 9:00 am	Welcome + Keynote 1 Dong Tan, Northrop Grumman Aerospace Systems “Power Electronics, Smart Grid and Grid Modernization”		8:00 am – 8:40 am	Keynote 3 Kay Das, Life Member IEEE “Challenges of the Connected Vehicle Revolution”	
9:00 am – 10:00 am	Session 1	Intelligent Transportation Systems eWaste	8:40 am – 10:20 am	Session 7	Sustainable Electronics II
10:00 am – 10:30 am	Break		10:20 am – 10:30 am	Break	
10:30 am – 11:50 am	Session 2	Sustainable Electronics I	10:30 am – 11:50 am	Session 8	Energy Efficiency II
11:50 am – 12:20pm	Lunchtime		11:50 am – 12:20pm	Lunchtime	
12:20pm – 1:00 pm	Keynote 2 Glenn Roquemore, Chancellor, California Southern University “Lessons learned from the July 2019 Ridgecrest, CA earthquakes, changes how we determine seismic risk in buildings“		12:20pm – 1:00 pm	Keynote 4 Seth D. Potter, Ph.D, SDP Space Systems “Orbit Options for Near-Term Space Solar Power“	
1:00 pm – 2:00 pm	Session 3	Smart Grid I	1:00 pm – 2:00 pm	Session 9	Smart Grid II
2:00 pm – 2:30 pm	Break		2:00 pm – 2:30 pm	Break	
2:30 pm – 3:50 pm	Session 4	Energy Efficiency I	2:30 pm – 3:50 pm	Session 10	Internet of Things II Societal Implications / Quality of Life I
3:50 pm – 4:00 pm	Break		3:50 pm – 4:00 pm	Break	
4:00 pm – 5:20pm	Session 5	Internet of Things I	4:00 pm – 5:20pm	Session 11	Societal Implications / Quality of Life II
5:20pm – 5:30pm	Break		5:20pm – 5:30pm	Break	
5:30pm – 6:50pm	Session 6	Water Resources Management	5:30pm – 6:50pm	Session 12	Sustainable Electronics III Renewable/Alternative Energy

Updated 4/22/20

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Accepted Papers by Session

EDAS ID	Title
	S4: Energy Efficiency I
1570598430	AC Vs DC Power Efficiency Comparison of a Hybrid Wind/Solar Microgrid
1570597838	Optimal Seasonal Wind Curtailment for Islanded Provisional Microgrid Operation
1570604747	Sensor Node Design for Energy Savings in Building Energy Management Systems
1570604786	Clean Air with a Mongolian Ger
	S8: Energy Efficiency II
1570604807	UAV Power Management, Generation, and Storage System Principles and Design
1570605061	How the Fluorescent and LED Lamps Affect the DC Home Nanogrids
1570605119	Non-Linear Control Strategy for a Two Body Point Absorber Wave Energy Converter Using Q Actor-Critic Learning
1570599329	A Better Policy for Electric and Low-Emission Cars Using Systems Thinking
	S1: Intelligent Transportation Systems & eWaste
1570594836	Electric Vehicle Charge Management for Lowering Costs and Environmental Impact
1570597065	Thermal Control Compensation of Induction Motor Drive in Electrified Powertrain
1570604340	Acceptance of E-waste Recycling Among Young Adults: An Empirical Study
	S5: Internet of Things (IOT) for sustainability I
1570604722	Implementing an IoT Energy Monitoring System Using the Challenge-based Learning Model
1570605087	Hybrid Environment IOT-Mapping of Over-Tourism and Air Pollution in the Azores Archipelago
1570605147	The Potential of New Data Sources in a Data-Driven Transportation, Operation, Management and Assessment System (TOMAS)
1570596776	A Modular, Scalable Automation System for a Distribution Substation
	S3: Smart Grid I
1570597209	Optimal PID Parameters Tunning for a DC-DC Boost Converter: A Performance Comparative Using Grey Wolf Optimizer, Particle Swarm Optimization and Genetic Algorithms
1570597326	Comparison of Short-Term Load Forecasting Techniques
1570604794	Implementation of Critical Care Customer Within a Small-Scale Model of a Smart Grid
	S9: Smart Grid II
1570605057	A New Model to Analyze Power and Communication System Intra-and-Inter Dependencies
1570605139	Disaggregation of Behind-the-Meter Solar Generation in Presence of Energy Storage Resources
1570627076	Real Time Indoor Positioning System for Smart Grid Based on UWB and Artificial Intelligence Techniques

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	S10: Internet of Things (IOT) for sustainability II
1570605167	Mitigation of Grid Susceptibility Caused by Behind-the-Meter Solar Generation
	Societal Implications / Quality of Life I
1570596866	Electric Utilities' Role in Promoting and Advancing Smart City Initiatives
1570605173	Toward Smart and Sustainable Infrastructure Solution: Assessment and Modelling of Qualitative Factors Affecting Productivity in Microtunneling Projects
1570604811	MiSA - A System for a Microlending Service to Assist Edge Communities
	S11: Societal Implications / Quality of Life II
1570605168	The Community Human Development Index (CHDI): Localizing Sustainable Development Goals Across Scales
1570605177	Expert-based Risk Level Assessment Model for Microtunneling Projects
1570602883	Big Charging: The Large Power Demanding Future of Electric Vehicles
1570599262	Tile Arrays for Space Based Solar Power Satellites
	S2: Sustainable Electronics I
1570598361	Extracting Clean Energy Through the Design of a Mesoscopic Low-Power Hydrokinetic Turbine
1570604810	Power System Protection in RTDS
1570605096	A LoRa-based Dual-CPU Core Salton Sea Environmental Monitoring Wireless Sensor System
1570605121	Power Quality Evaluation of Six-Step Commutation Brushless DC Motor Implemented on 32-Bit ARM Cortex Microcontroller
	S7: Sustainable Electronics II
1570593440	Auto-Configurable Feature in Universal Remote Terminal Unit (uRTU)
1570605113	Sustainability Driven Performance Evaluation of Underground Smart Grid Conversion
1570575113	A Solar-Based Stand-Alone Family House for Energy Independence and Efficiency
1570605114	Effect of Printing Technology to Electricity and Environment
1570629960	Event Flow Measurements in Remote Tropical Watersheds in the Philippines: The Need for Automated Weather-proof Devices
	S12: Sustainable Electronics III
1570624538	A Luminous-free Remote Surveillance System with Inherent Video Overlay and IP Encoder
	Renewable/Alternative Energy - Solar/Wind/Other
1570605180	Optimal Energy Storage Schedules for Load Leveling and Ramp Rate Control in Distribution Systems
1570586045	Gender Considerations in Load Estimation for Rural Electrification
1570591482	A Tool for Modernizing the Grid

	S6: Water Resources Management
1570605137	Toward Sustainable Clean Water: Water Failure Prediction Model in Water Distribution Networks
1570624445	Assessment of the Existing Drainage System in Infanta, Quezon Province for Flood Hazard Management Using Analytical Hierarchy Process
1570624451	Application of Artificial Neuro-Fuzzy Interference System in Rainfall-Runoff Modelling at Imus River, Cavite
1570598212	Smart Watershed Monitoring for near Real-time Hydrologic Modeling in a Tropical Environment: The Case of Magat River Basin in Luzon, Philippines