Call for Papers

SEST 2018
International Conference on Smart Energy Systems and Technologies

10-12 September, 2018, University of Sevilla, Sevilla, Spain

Websites: http://www.sest-conference.com/index.html
https://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=44096

technically co-sponsored by the IEEE Industrial Electronics Society and by the IEEE Spain Section

Smart Energy Systems and Technology offer promises to enhance the operational efficiency of nationwide energy and power supplies via distributed generation with bi-directional energy and electricity flow. This objective is achieved by allowing intelligent monitoring and control of different components within the distribution and transmission lines as well as other systems from utilities of natural gas, thermal energy, electricity, and water on the one side to the end user on the other side, while maintaining the energy and power quality, security, reliability and safety with minimum environmental impacts. Governments around the world are investing heavily in smart energy systems to ensure optimum energy use and supply, enable better planning for outage responses and recovery, and facilitate the integration of heterogeneous technologies such as renewable energy systems, electrical vehicle networks, and smart homes around the grid. Smart energy systems present enormous engineering challenges in the design and integration of energy and electrical grids with communication and network technologies, along with substantial questions of security and privacy of different components within the grid.

The **SEST conference** aims at providing an opportunity to discuss various engineering challenges of smart energy system design and operation by focusing on advanced methods and practices for designing different components and their integration within the grid. It also provides a forum for researchers from academia and professionals from industry, as well as government regulators to tackle these challenges, and discuss and exchange knowledge and best practices about design and implementation of Smart energy systems.

Important Dates

Abstract Submission:	1-Mar-2018
First Notification:	15-Apr-2018
Full Paper Submission:	1-Jun-2018
Acceptance Notice:	15-Jul-2018
Camera-Ready Due:	22-Jul-2018

The authors of approved abstracts (*one or two pages*) will be invited to submit full papers. Full paper submissions (*max 6 pages*) will be peer-reviewed by at least ***3 reviewers***. Please follow manuscript templates for IEEE conference proceedings.

Submission Method:
https://www.easychair.org/conferences/?conf=sest2018

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Conference Proceedings
Accepted and presented papers will be submitted to ***IEEE Xplore*** for inclusion in the IEEE digital library.

Conference Scopes

Topics of interest include (but not limited to) the following:

- Resilient/adaptive grid infrastructures design, planning, operation and management
- Thermal networks, storage, import/export, control, optimization, and applications
- Hydrogen and natural gas networks, production and supply chain, integration
- Gas-power generation systems design and applications
- Power electronic converters and drives
- Energy storage technologies and systems
- Demand monitoring and energy efficient systems
- FACTS, active power filters, power quality monitoring and performance enhancement
- Sensors, communications and network
- Grid modeling, simulation, and data management
- Energy efficiency, conservation, and savings
- Plug-in hybrid electric vehicle (PHEV) systems, CNG vehicles, clean transportation
- Grid protection, reliability, energy/power quality and maintenance
- Smart metering, measurement, instrumentation, and control
- Information, security and privacy for smart energy systems
- Renewable energy, wind, solar, fuel cells and distributed generation within microgrids
- Computational intelligence and optimization for smart energy systems
- Smart homes, cities, communities
- Life cycle assessment, pricing, policies, and energy planning
- Smart energy systems education

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Registration

Categories	Early Bird Registration until July 29, 2018	Late Registration from July 30, 2018
Student	340 EURO	440 EURO
IES Member	380 EURO	480 EURO
IEEE Student Member	300 EURO	400 EURO
IEEE (Non-IES) Member	400 EURO	500 EURO
Regular	500 EURO	600 EURO

Early bird Registration: Deadline is July 29, 2018

Note: With a full registration, ***two accepted papers*** can be presented and included in the proceedings. If a ***third paper*** is to be presented, an extra fee of 100 EUR has to be remitted for that paper.

Keynote Speakers

"How to Model Integrated Energy Systems"

by: Prof. Peter Palensky, **IEEE Senior Member** **Full Professor** at TU Delft, The Netherlands

"Smart Technologies for Massive Integration of Renewables"

by: Prof. Antonio Gómez Expósito, **IEEE Fellow** **Full Professor** at USevilla, Spain

"Challenges on the Demand Side"

by: Prof. Gianfranco Chicco, **IEEE Fellow** **Full Professor** at POLITO, Italy

"New Grid Codes to Increase Renewables Penetration"

by: Prof. João Peças Lopes, **IEEE Fellow** **Full Professor** at FEUP, Portugal

"Resilient Interconnected Micro Energy Grids"

by: Prof. Hossam Gaber, **IEEE Senior Member** **Full Professor** at UOIT, Canada

"The Value of Storage for Renewable Integration"

by: Prof. Anastasios Bakirtzis, **IEEE Fellow** **Full Professor** at AUTh, Greece