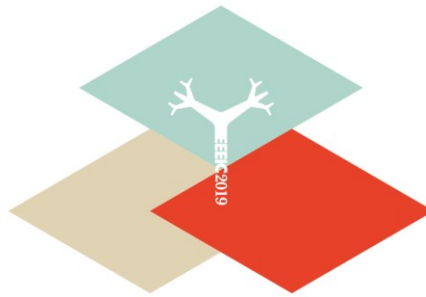




INDUSTRIAL AND COMMERCIAL  
POWER SYSTEM  
EUROPE



GENOA | ITALY | 11th-14th June 2019



INTERNATIONAL CONFERENCE  
ON ENVIRONMENT  
AND ELECTRICAL ENGINEERING

SPECIAL SESSION

## ADVANCES IN STATE ESTIMATION AND SYSTEM MEASUREMENTS FOR DISTRIBUTION NETWORKS AND SMART GRIDS

-----

### ORGANIZED AND CHAIRED BY:

Panayiotis (Panos) Moutis - DEPsys SA, Switzerland and Wilton E. Scott - Institute for Energy Innovation,  
Carnegie Mellon University, USA (1)

Ana-Maria Dumitrescu - Politehnica University of Bucharest, Romania (2)

### CONTACT EMAIL:

(1) [panayiotis.moutis@depsys.ch](mailto:panayiotis.moutis@depsys.ch) (2) [anamaria.dumitrescu@upb.ro](mailto:anamaria.dumitrescu@upb.ro)

-----

### OBJECTIVE AND TOPICS

Network and market operators overseeing electric distribution systems will need or be required to monitor them closely, due to the presence of multiple actors, such as generating and storage units, as also active loads. This framework is already a reality for transmission and interconnected systems and is imminent to be extended, enhanced and redesigned according to new policies and stakeholders. Furthermore, all smart grid paradigms either explicitly or implicitly require wide and detailed monitoring of the available assets.

This session invites works on the following topics and similar relevant ones:

- ❖ State estimation for balanced and unbalanced electrical networks
- ❖ Measurement devices and algorithms for distribution networks and smart grids (PMUs, RTUs, smart meters etc)
- ❖ Power quality monitoring and foreseen future requirements
- ❖ Effect of the IEEE-1548 in state estimation and system measurements
- ❖ The Internet-of-Things value proposition for measurement, analysis and assessment of system data.

*All the instructions for paper submission are included in the conference website: <https://www.eeeic.net/eeeic>*