



First International Colloquium on Smart Grid Metrology

Split, Croatia; 24th – 27th April 2018

The mission: *To exchange university and industrial knowledge and establish interdisciplinary cooperation and networking in the area of smart grids and broad range of related topics as shown below, together with the important dates.*

Track 1: Metrology for smart grids

- Metrology-grade power and energy standards
- Accurate digitizers
- High frequency digitizers
- Precision wideband transducers
- Algorithms for power and energy measurements
- Power quality measurements
- Calibration methods
- Power grid metrology
- Harmonics and interharmonic measurement
- Noise reduction
- Phase comparison
- Signal processing
- Instrument transformers
- Nonconventional sensors

Track 2: Customer based applications

- Advanced energy meters
- Web metering applications
- Energy management
- Smart metering and diagnostics in equipment
- Data analytics
- Smart cities applications and sensors
- Medical smart grid infrastructure
- Internet of things
- Smart water and gas applications
- Home based sensors, meters and data acquisition
- Wireless sensor networks
- Power line communications
- Embedded systems
- Security of data
- Energy storage and electric vehicles chargers
- Optical communications and sensors
- Human body sensors
- Vehicle integration to smart grids

Track 3: Utility side metering applications

- On site power quality measurements
- Wide area monitoring, protection and control
- Modeling and prediction under uncertainty
- Methods and algorithms for real-time analysis
- Phasor measurement units (PMU) applications
- Visualizations for control centers
- Power quality measurement standards (61000, 1159...)
- Security and privacy challenges in smart grids
- Synchrophasor standards (61850; C37.118...)
- Other smart grid standards (61970, 62056, 61968...)
- Precision timing for smart grids (GPS based, IEEE 1588)
- Calibration and testing of phasor measurement units
- Merging units
- Machine learning

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05/12/2017

Abstract submission

08/01/2018

Notification of acceptance

26/01/2018

Final paper submission

07/02/2018

Registration deadline

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