



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 a 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
- Accurate 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

23/01/2018

Notification of acceptance

09/02/2018

Final paper submission

16/02/2018

Registration deadline

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