



**2015 International Symposium on  
Smart Electric Distribution Systems and Technologies (EDST)  
CIGRE SC C6 Colloquium**

*Vienna, Austria – September 8-11, 2015*

**Special Session on**

**Real Time Simulation of Smart Electrical Distribution Systems**

**organized and co-chaired by:**

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**Call for Papers**

Technical Outline of the Session and Topics:

Real time (RT) simulation of smart electrical distribution systems are starting to emerge as a viable tool for de-risking and testing novel concepts and technologies. While significant advances have been made recently in RT simulation based hardware in the loop (HIL) techniques and methods, several challenges remain in the areas of: partitioning electrical systems with short line lengths, modeling of multiple power electronic converters on one distribution feeder, formal methods and guidelines of validation models, etc. On the other hand, RT simulation based HIL offers new dimensions to better study phenomena associated with more agile, future, smart distribution systems. This session will explore all those aspects by bringing knowledgeable experts together to present recent developments and discuss how to overcome the challenges ahead.

Topics of interest include, but are not limited to:

- Real time simulation techniques, especially for distribution systems and power electronic converters
- Controller and power hardware in the loop (HIL) techniques and applications
- Model validation methods using HIL

**Submission of Special Session papers: for details see [www.edst2015.org/timelines.html](http://www.edst2015.org/timelines.html)**

All the instructions for paper submission are included in the conference website: [www.edst2015.org](http://www.edst2015.org)