



SPECIAL SESSION

NEW EMC CHALLENGES IN THE SMART GRID

ORGANIZED AND CO-CHAIRD BY:

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OBJECTIVE AND TOPICS

Operation of the Smart Grid relies on smart meters, control systems and power electronic converters which may introduce electromagnetic disturbances in the environment and may be subject to the electromagnetic disturbance generated by equipment connected to the Smart Grid. Hence, Electromagnetic Compatibility (EMC) plays a crucial role in assuring reliability and interoperability of the Smart Grid.

The Special Session focuses on these new EMC challenges, and is aimed at (but not limited to) covering the following topics:

- ❖ EMC in Power Electronics;
- ❖ EMC measurements and standards;
- ❖ Conducted and radiated emissions;
- ❖ Protection from high power electromagnetic transient threats;
- ❖ Immunity of sensors;
- ❖ Electromagnetic shielding;
- ❖ Wireless power transfer;
- ❖ Human exposure to electromagnetic fields.

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