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Special Session on

**“Smart Buildings and Prosumers for Management and
Energy Sharing”**

Organized by

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Call for Papers

This special session will be the opportunity to evaluate the latest identification and control techniques for smart buildings and prosumers. The objective is the improvement of power management, data analysis and cost savings. The influence of the wind turbine and PV systems on the power quality becomes so significant. An application of advanced techniques and artificial intelligence is a good opportunity for energy saving. It is therefore important to use the most effective identification and control methods in order to meet new requirements.

Topics of interest include, but are not limited to:

- Home Energy Management System
- Smart measures
- Energy efficiency
- Energy charring and Blockchain
- Power quality improvement
- Analysing the impact of prosumers in grids

- Mathematical and economic modelling of the Prosumer as an autonomous system
- Improve the peak demand management
- Consumption reduction
- Electrical signal measurements and analysis with advanced techniques