

Special Session on

Catching load flexibility potential in Smart Grids

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2016 IEEE Symposium on Computational Intelligence Applications in Smart Grid (IEEE CIASG'16)

Paper submission: August 15, 2016

Paper acceptance: September 12, 2016

Final submission: October 10, 2016

Early registration: October 10, 2016

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(General information for paper submission: <http://ssci2016.cs.surrey.ac.uk/>)

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Scope

Load flexibility, deployed under a diversity of incentive and price-based demand response programs, has a huge potential to the increase of the smart grid efficiency. The aim is to take full advantage of the potential of consumers' demand flexibility, while ensuring their proper remuneration and increasing the efficiency of the whole energy and power system. In spite of having already proved to be a very valuable and flexible resource with low cost when compared with alternative resources, demand response use is still at very low levels around the world. The identification of the main obstacles to the effective use of demand response, and of the most prominent potential solutions to overcome them, lead to the urgent need for further developments. The contributors for this special session will bring their experience in the development and use of effective solutions in the field.

Potential topics

Include but not limited to:

- Business models
- Communication and control
- Load and generation forecasting
- Demand response
- Distributed generation
- Electric vehicles
- Energy efficiency
- Energy resources scheduling
- Resources aggregation
- ICT applications
- Intelligent techniques for optimization
- Intelligent data processing
- Energy metering and billing
- Sensor networks
- Real-time simulation
- Thermal management and comfort

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<http://www.gecad.isep.ipp.pt/ieee-SS-CIASG2016/Loads-Flexibility/>



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