

Special Session on

## Intelligent management of micro grids and buildings

2016 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2016)

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

### Submit a paper to the special session:

1 - Login Easy Chair IEEE SSCI - <https://easychair.org/conferences/?conf=ssci16>

2 - New submission

3 - Select the track "Special Session for CIASG : Intelligent management of micro grids and buildings"

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

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#### Scope

Smart grids aim at successfully implementing a new model for power and energy systems, accommodating all the involved energy resources and players. Micro grids and buildings are relevant building blocks of efficient smart grids, which can significantly contribute to the overall efficiency increase through the use of intelligent techniques. Ontologies, context awareness, and computational intelligence are relevant aspects of the path leading to the successful implementation of those concepts in practice. The contributors for this special session will bring their experience in the development and use of intelligent solutions for micro grids and buildings management. The analysis of the successes and limitations of the solutions implemented so far will enable a fruitful discussion pointing to key topics to be addressed in the field.

#### Potential topics

Include but not limited to:

- Communication and control
- Demand forecasting
- Demand response
- Distributed generation
- Electric vehicles
- Energy efficiency
- Generation forecasting
- Energy resources scheduling
- Information technology applications
- Energy resources aggregation
- Knowledge-based approaches
- Intelligent optimization
- Real-time simulation
- Renewable energy
- Semantic communication and data
- Storage

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