

IEEE SSCI 2018

Special Session on

Optimizing the use of Distributed Energy Resources in Smart Grids with Effective Demand Response

2018 IEEE Symposium on Computational Intelligence Applications in Smart Grid (CIASG'18)

Organizers

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Aims and scope

Demand response relies on the load flexibility, deployed under a diversity of incentive and price-based programs. It 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 through the participation in demand response programs.

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.

Distributed energy resources have a great potential for demand response, namely when considering the share of distributed generation in buildings and local communities.

The contributors for this special session will bring their experience in the development and use of effective solutions in the field.

Topics

Algorithms for modeling, control and optimization

Communication and control

Demand side management

Demand response

Distributed energy resources

Markets and economics

Methods and algorithms for real-time analysis

Optimization

Planning, operation and control

Plug-in electric vehicles

Renewable energy

Smart homes and buildings

Important dates

Paper Submission 15th June 2018

Decision 15th August 2018

Early Bird Registration 15th September 2018

Paper submission

<http://ieeessci2018.org/submission.html>