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Demand Response Programs for Energy Systems: Challenges, Stateof-the-Art, Future Trends

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Deadline for manuscript submissions:

closed (31 December 2019)

Message from the Guest Editors

This Special Issue seeks high-quality submissions that highlight emerging applications and challenges of demand response (DR) programs in electricity markets with the goal of covering viable DR frameworks, case study analyses, and necessary transformations in electricity markets to implement efficient DR programs successfully. The topics of interest include but are not limited to:

- Market participants interactions in DR programs;
- Efficient pricing mechanism design for DR programs;
- Residential appliances scheduling algorithms in DR programs;
- Applications of machine learning algorithms in designing autonomous DR programs;
- DR programs applications for energy management in industrial sectors (e.g., data centers);
- DR applications in ancillary services market (e.g., frequency regulation);
- DR programs applications in energy hubs, energy districts, and microgrids;
- The role of electric vehicles in DR programs;
- Online optimization algorithms design for DR applications;
- The role of Internet-of-Things (IoT) in DR programs;
- DR programs in transactive energy markets (e.g., direct trading of prosumers);
- DR programs in deregulated electricity markets.











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Message from the Editor-in-Chief

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