Special Issue

Computational Intelligence Applications in Smart Grid Optimization

Message from the Guest Editors

While smart grids promise benefits for users and operators (e.g., the enhance of features such as flexibility, reliability, sustainability, efficiency, etc.), their evolution into a complex socioeconomic environment—requiring a great deal of analysis and planning—is pushing the application of accepted deterministic solutions to its limits. In some cases, these solutions are not suitable for dealing with issues related to high-dimensionality, lack of information, noisy and corrupt data, and real-time requirements, among numerous other real-world considerations. Evolutionary computation (EC) embracing algorithms that are tolerant to imprecision, uncertainty, and approximation can play a key role as an efficient tool to deal with the challenging scenario encountered in many smart grid applications. This Special Issue aims to address and disseminate the state-of-the-art research and development in the application of evolutionary computational in smart grids.

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Deadline for manuscript submissions

closed (20 May 2021)

About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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