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Computational Intelligence Applications in Smart Grid Optimization

Guest Editors:

Dr. Fernando Lezama

Dr. Joao Soares

Prof. Dr. Zita Vale

Dr. Tobias Rodemann

Deadline for manuscript submissions:
closed (20 May 2021)

Message from the Guest Editors

Dear Colleagues,

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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Message from the Editor-in-Chief

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Journal Rank: CiteScore - Q1 (Control and Optimization)

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