Special Issue

Heuristic Optimization Techniques Applied to Power Systems

Message from the Guest Editors

The word heuristic comes from the Greek (heurískein) and means to find or to discover. Heuristic techniques find solutions that make it possible to solve problems that could hardly be solved with other techniques, such as linear and nonlinear programming, integer programming, and dynamic programming. Many heuristic techniques have been developed. Some of them have been inspired by nature, such as evolutionary algorithms. Others use different methodologies in order to discover good solutions in an efficient way. They have been successfully applied to solve a wide range of real world and complex engineering problems during the last few decades. One characteristic of these techniques is that they do not ensure that the solutions they provide are the best possible and that the necessary computational time is reasonable. The topics of interest in this Special Issue include heuristic techniques applied to any field related to power systems, such as energy generation, distribution, and transmission networks; smart grids; energy storage; renewable energy integration; electric vehicles; electricity markets; electricity demands; etc.

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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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