Special Issue

Algorithms in Planning and Operation of Power Systems

Message from the Guest Editor

Now, due to the rising power of the digital age and an era of sustainable development, renewable sources have taken the place of fossil fuels, and smart digital grids are also being used. Different algorithm approaches must be applied to meet these modern power system needs to obtain new solutions for the planning and operation of power systems. Through this approach, new research in this area is looking to expand the application of advanced computing algorithms for the solution of power system problems.

- algorithms for operation scheduling of power systems
- risk-constrained operation scheduling applied to power systems
- planning power systems with high penetration of intermittent renewable resources and storage technologies
- power system risk assessment and management algorithms
- algorithms intended for uncertainty cost functions and stochastic scenario reduction in clean energy modeling
- scheduling tools for assuring a safe and economic network operation

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

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