



CALL FOR PAPERS

Special Issue on

Energy Networks

Special Issue Editors: Miguel F. Anjos, Falk M. Hante, Frauke Liers

Submission Deadline: September 30th, 2020

Completion: June 30th, 2021

<http://www.springer.com/186>

Energy networks represent one of the main backbones of modern infrastructures. Their operation requires complex decision making including economic, environmental, sociological, as well as fairness aspects. Some of the mathematical challenges arise from the fact that energy networks are usually large-scale, the relevant laws of physics are nonlinear, the control actions are of mixed discrete-continuous nature, and various sources of uncertainties are present. The aim of this special issue is to extend and broaden the mathematical methodologies in modelling, simulation, and optimization for energy networks. Preference will be given to high-quality contributions with new results on mathematical operations research methods for energy networks broadly interpreted.

Topics of interest

Of great interest for this special issue are topics around energy network design, energy transportation, energy markets and energy sector coupling. Subject areas include but are not limited to:

- mathematical modelling using stationary, transient/dynamical, stochastic or hybrid models;
- computational methods for network problems, uncertainty in data, and mixed logical-dynamical systems;
- discrete, continuous or stochastic methods in optimization for robust network designs;
- multilevel optimization and game theory, particularly in the context of energy markets;
- challenging and innovative applications.

Of particular interest are contributions coupling two or more of these areas.

Submission

Please submit manuscripts through the Springer online system (if you are a new author to the system you will be required to create a system login) <https://www.editorialmanager.com/mmor> and, when asked to "Choose Article Type", select "S.I.: Energy Networks".

Submission of a manuscript implies: that the work described has not been published before; that it is not under consideration for publication anywhere else; that its publication has been approved by all co-authors, if any, as well as by the responsible authorities – tacitly or explicitly – at the institute where the work has been carried out.

The publisher will not be held legally responsible should there be any claims for compensation.

The journal imposes no hard limits on the paper length as long as what authors write is important. A paper length of about 20 pages in journal format is appreciated. Submissions that exceed 40 pages in journal format (including illustrations and references) should however be accompanied by a short justification as to why a briefer discussion is not possible.

Full author instructions may be found at <http://www.springer.com/186/submission-guidelines>

Any questions related to this special issue should be sent to:

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