

Special Issue

Mixed-Integer Linear and Nonlinear Programming Methods for Energy Aware Traffic Control in Stationary Networks and Clouds

Message from the Guest Editor

Methods of increasing the energy efficiency of computer networks and clouds are becoming an important issue in telecommunication networks. As observed, significant savings can be obtained by consolidating flows during periods and in areas of reduced traffic. The idea is to temporarily shut down or put to sleep certain parts of a network or a cloud and to meet the demands of users through the rest of the system. The most effective solutions are network-wide and based on online optimization. Unfortunately, realistic, single-path models involve a big number of binary routing variables and lead to NP-hard problems that cannot be solved in an acceptable time. This is the reason behind the big amount of interest in the development of numerical algorithms which will enable getting an approximate solution to these problems in a possibly short time.

Guest Editor

Dr. Andrzej Karbowski

1. Faculty of Electronics and Information Technology, Warsaw University of Technology, 00-665 Warsaw, Poland
2. NASK National Research Institute, 01-045 Warsaw, Poland

Deadline for manuscript submissions

closed (31 March 2023)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 8.3



mdpi.com/si/64060

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 8.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)