# Special Issue

# Optimization and Modeling of Complex Energy Systems

### Message from the Guest Editors

Hybrid energy systems, combining two or more energy vectors into a single system, are a promising way of increasing the efficiency of energy production and demand but the complexity of their management increases when several types of energy sources are combined on the same site. In this context, the Special Issue focuses on the research, development, and practical application of optimization methods applied to the optimal management and/or design of complex energy systems.

- Energy analysis and optimization
- Process integration, analysis, and optimization
- Refrigeration, air-conditioning, and heat pumps
- Power generation and CHP
- Renewable energy (solar, wind, hydro, etc.)
- Energy storage (batteries, thermal, hydrogen, etc.)
- Distributed generation and smart grids
- District energy supply and networks
- Biomass and biofuels
- Energy use
- Industrial energy use
- Energy conservation and management
- Environmental impacts of energy conversion
- Energy policy and planning
- Techniques addressing uncertainties in optimization of energy systems.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 January 2021)

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*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

## Editor-in-Chief

Prof. Dr. Flavio Canavero
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