

## Special Issue

# Advanced Optimization Algorithms for High Penetration of Renewable Energy Sources

### Message from the Guest Editors

In this context, this special issue aims to focus on the development of optimisation algorithms and problem formulations to facilitate the high penetration of renewable energy sources, such as solar PV panels, wind power generation, hydropower and biomass energy. Topics of interest include but not limited to:

- optimal sizing of energy storage systems
- scheduling resources
- real-time energy management
- demand-side management
- EV planning and scheduling
- stochastic optimisation algorithms
- meta-heuristic optimisation algorithms
- optimal power flow problems
- multi-objective optimisation algorithms
- energy storage systems
- microgrids
- smart cities
- optimisation problems
- real-time electricity prices.

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### Guest Editors

Dr. Md Alamgir Hossain

Dr. Ripon Kumar Chakraborty

Prof. Dr. Stefano Squartini

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### Deadline for manuscript submissions

closed (15 June 2022)



## Electronics

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## About the Journal

### Message from the Editor-in-Chief

*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.

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### Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di  
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