



## Internet of Energy (IoE): New Business Scenarios, Technologies and Applications

Guest Editors:

**Prof. Dr. Hamid Doost  
Mohammadian**

Department of Business and  
Economics, University of Applied  
Sciences (FHM), Bielefeld,  
Germany

**Dr. Dario Assante**

Faculty of Engineering, Università  
Telematica Internazionale  
Uninettuno, 00186 Rome, Italy

Deadline for manuscript  
submissions:

**closed (30 June 2021)**

### Message from the Guest Editors

The digital transformation driven by 4.0 technologies is having a disruptive impact on many sectors, including energy. These innovations allow us to respond to both the growing energy demand and the lower carbon emission requirements. New intermediaries and new business models appear in the energy market. The energy economy has changed from a power economy to a data and power economy, leading to the concept of the “Internet of Energy”.

The aim of this Special Issue is to report on new scenarios, technologies, and applications related to the concept of the Internet of Energy and discuss challenges and risks. It also aims to cover the impact of 4.0 technologies on the energy sector, including the large-scale deployment of IoT, the employment of big data and machine learning for energy forecasting, the use of cloud platforms for the control of smart grids, and the new cyber-risks for the energy sector.

Internet of Things, Internet of Energy, cyberphysical systems, big data, and machine learning are new techniques used in Industry 4.0 that enable businesses to better manage resources and provide them with the flexibility to respond to business conditions.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## 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.

## 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), CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Electrical and Electronic Engineering*) CiteScore - Q2 (*Electrical and Electronic Engineering*)

## Contact Us

*Electronics* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://twitter.com/electronicsMDPI)