

Special Issue

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

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.

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)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/44017

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

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





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



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



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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

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

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).