

## Special Issue

# Challenges and Research Trends of Telecommunication and Electrical Engineering

### Message from the Guest Editor

In recent years, deep learning has emerged as a novel class of machine learning algorithms that represent electrical systems data via a large hypothesis space that leads to state-of-the-art performance. Deep learning techniques are especially useful for analyzing complex, rich, and multidimensional signals. Based on these considerations, this Special Issue will focus on the modeling and analysis of electrical power systems, telecommunication systems, renewable energy, electrical vehicles, smart grids, energy and environment, and signal estimation. **Keywords**

- signal processing
- telecommunication engineering
- renewable energy
- power electronics
- robotics
- smart grids
- deep learning
- unmanned vehicles
- power systems
- signal detection and estimation
- energy and environment
- energy sources

---

### Guest Editor

Dr. Ali Farzamnia

Electrical & Electronic Engineering Program (HK02); Faculty of Engineering; Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia

---

### Deadline for manuscript submissions

closed (5 January 2023)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/123019](https://mdpi.com/si/123019)

*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

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





# Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[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)