



## Emerging Technologies for the Energy Systems of the Future

Guest Editors:

**Prof. Dr. Amjad Anvari-Moghaddam**

**Dr. Vahid Vahidinasab**

**Prof. Dr. Behnam Mohammadi-Ivatloo**

**Dr. Reza Razzaghi**

**Dr. Fazel Mohammadi**

Deadline for manuscript  
submissions:  
**closed (31 December 2020)**

### Message from the Guest Editors

This Special Issue covers new advances in the emerging technologies for modern energy systems from both technical and management perspectives. We invite all interested researchers to submit their original research and review papers for this Special Issue; topics of interest include, but are not limited to:

- Energy systems integration;
- Micro- and nano-energy systems and technologies;
- Operation and control of energy systems;
- Integrated community-based energy systems;
- Local energy systems;
- Energy islands;
- Multi-stakeholder energy systems;
- Energy conversion, conservation, and management;
- Multi-carrier and integrated energy systems;
- Energy storage systems;
- Demand-side management;
- IoT for smart grid;
- Flexibility services in integrated energy systems;
- Renewable energy hosting capacity;
- The market for flexibility services;
- Role of cloud/edge computing technology on energy systems modernization;
- Effect of ICT and cybersecurity trends on energy systems of the future;
- Vector coupling energy storage systems;
- Low-carbon technologies in energy systems;
- eMobility;
- Big data in energy systems





an Open Access Journal by MDPI

## Editors-in-Chief

### **Prof. Dr. Chien-Hung Liu**

Department of Mechanical  
Engineering, National Chung  
Hsing University, 250 Kuo Kuang  
Rd., Taichung 402, Taiwan

### **Prof. Dr. Shoou-Jinn Chang**

Department of Electrical  
Engineering, National Cheng  
Kung University, Tainan 701,  
Taiwan

## Message from the Editorial Board

The unique journal *Inventions* is different from all other journals. Many scholars spend their lives publishing research papers in many different journals, but most of these journals do not help scholars collate and analyze their results or assist in promoting them to a relevant industry. However, *Inventions* will help authors not only to publish their papers in the journal, but also to promote their research results to industry and assist them in realizing the purpose of technology transfer. In the future, *Inventions* will help authors to evaluate their technology license fees based on the valuation theory and approaches and also help authors to show their patents and technologies on a network transaction platform.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, ESCI (Web of Science), Inspec, Ei Compendex and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

*Inventions* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/inventions](http://mdpi.com/journal/inventions)  
[inventions@mdpi.com](mailto:inventions@mdpi.com)