



## Uninterruptible Power Supplies (UPS)

Guest Editors:

**Dr. Mehdi Savaghebi**

Electrical Engineering Section,  
Mads Clausen Institute, University  
of Southern Denmark, 5230  
Odense, Denmark

**Dr. Hossein Hafezi**

Faculty of Information  
Technology and Communication  
Sciences, Electrical Engineering,  
Tampere University, Tampere,  
Finland

**Dr. Mahdi Shahparasti**

School of Technology and  
Innovations, Electrical  
Engineering, School of  
Technology and Innovations,  
University of Vaasa, 65200 Vaasa,  
Finland

Deadline for manuscript  
submissions:

**closed (31 August 2020)**

### Message from the Guest Editors

Dear Colleagues,

Uninterruptible power supply (UPS) systems are vital equipment to reliably feed sensitive and critical loads such as data centers, communication networks, and IT servers. Although conventional UPS systems, including on-line, off-line, and line-interactive UPSs, are currently in use in the industry, more development is still needed to reduce cost/volume and enhance efficiency and reliability.

Prospective authors are invited to submit original contributions or survey papers for publication in *Sustainability*. Topics of interest for this Special Issue include but are not limited to the following topics in the field of UPS:

- Architecture and hardware design;
- New power electronics topologies;
- Design for reliability and robustness;
- Advanced and fault-tolerant control strategies;
- Multi-layer (hierarchical) control schemes;
- Lifetime modeling, condition monitoring, and failure prediction;
- Integration of renewable energy resources;
- Innovative (hybrid) energy storage devices;
- Energy and battery management systems...

Dr. Mehdi Savaghebi

Dr. Hossein Hafezi

Dr. Mahdi Shahparasti

*Guest Editors*





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Marc A. Rosen**

Faculty of Engineering and  
Applied Science, University of  
Ontario Institute of Technology,  
Oshawa, ON L1G 0C5, Canada

## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

## Author Benefits

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

**High Visibility:** indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [GeoRef](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (*Geography, Planning and Development*)

## Contact Us

*Sustainability* 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/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[X@Sus\\_MDPI](#)