



## Energy-Aware Cyber-Physical Systems

Guest Editors:

**Prof. Dr. Damien Trentesaux**

LAMIH-UMR CNRS, Université  
Polytechnique Hauts-de-France,  
59313 Valenciennes, France

**Prof. Dr. Smaïl Niar**

LAMIH-UMR CNRS, Université  
Polytechnique Hauts-de-France,  
59313 Valenciennes, France

Deadline for manuscript  
submissions:

**closed (31 January 2020)**

### Message from the Guest Editors

Dear colleagues,

The Cyber-Physical Systems (CPS) approach, which aims to merge the digital and the physical worlds through networks, could constitute a real opportunity for researchers and practitioners. CPS enables the integration of various sensors and actuators through automated or human-based decision, monitoring, and control loops. Using these features, designing energy-based or energy-aware CPS could facilitate the attainment of the introduced societal and environmental needs and the design of new and efficient services. Meanwhile, scientific issues can be identified. These issues concern (but are not limited to) the design of their architecture, the optimisation of effective and efficient operations, big data and energy management, and resilience and adaptability to unexpected situations and events, to name a few. Aspects relevant to cyber-security and technology integration are of also great interest.

Prof. Dr. Damien Trentesaux

Prof. Dr. Smaïl Niar

*Guest Editors*





# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

## 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.

## 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 Compindex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (Control and Optimization)

## Contact Us

---

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

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

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://twitter.com/energies_mdpi)