



*energies*



an Open Access Journal by MDPI

## Smart Home 4.0

Guest Editors:

**Prof. Dr. Antonio Pescapè**

Department of Electrical  
Engineering and Information  
Technology, University of Napoli  
Federico II, Via Claudio, 21, 80125  
Napoli, Italy

**Dr. Giuseppe Aceto**

Dipartimento di Ingegneria  
Elettrica e delle Tecnologie  
dell'Informazione, Università di  
Napoli Federico II, Complesso  
Monte S. Angelo, Via Cintia, I-  
80126 Napoli, Italy

Deadline for manuscript  
submissions:

**closed (28 February 2021)**

### Message from the Guest Editors

Dear Colleagues,

To deal with such complexity, unified, minimal, and “smart” control interfaces will be needed: the recent boost of artificial intelligence techniques is providing new tools for both human–machine interaction and automation. The smart home environment, due to its centrality for human beings, constitutes a privileged vantage point to survey the technological paradigm known as Industry 4.0.

The purpose of this Special Issue is to explore the smart home 4.0, i.e. the smart home in the face of the fourth industrial revolution, from a wide spectrum of points of view: technology and frameworks, applications, but also theoretical models and algorithms, as well as technical regulations and standards. The criteria for manuscript acceptance will be novelty and the potential breadth and contribution to the field, and experimental implementations and empirical proofs are also encouraged.

Prof. Dr. Antonio Pescapè

Dr. Giuseppe Aceto

*Guest Editors*

Keywords: smart home; industry 4.0; home automation; internet of things; smart grids; artificial intelligence; smart sensors; home appliances; security, privacy, sustainability; user experience



[mdpi.com/si/19172](https://mdpi.com/si/19172)

# Special Issue



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

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

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 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 Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (*Engineering (miscellaneous)*)

## Contact Us

---

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