

## Special Issue

# Internet of Things Solutions for Intelligent Management and Control of Buildings

### Message from the Guest Editor

Intelligent Management and Control of Buildings are central issues in the development of smart homes, buildings and cities. The most immediate objective is the minimization of the energy required to maintain a desired comfort level for the occupants, the perception of comfort being related to several environmental factors, such as lighting, temperature and air quality.

For an integrated solution, this is not enough. Depending on the building type and its use (residential, administrative and industrial buildings, schools, hospitals, department stores, cultural and entertainment facilities, etc.), elevator control, monitoring and control of the consumption of water and/or gas (not only electricity), electric vehicle charging, etc., should also be considered. For elderly people, safety in homes is an issue as important as comfort.

The Internet of Things enables to connect numerous heterogeneous devices through the internet, for which it needs a flexible layered architecture where the things, the people and the cloud services are combined to facilitate an application task. This Special Issue is focused on Internet of Things solutions for intelligent integrated building control.

---

### Guest Editor

Prof. Dr. Antonio Ruano

Faculty of Science & Technology, University of Algarve, Campus de Gambelas, 8005-139 Faro, Portugal

---

### Deadline for manuscript submissions

closed (31 May 2019)



## Inventions

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.9  
CiteScore 4.9



[mdpi.com/si/17257](https://mdpi.com/si/17257)

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

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





# Inventions

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.9  
CiteScore 4.9



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



## About the Journal

### 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.

---

### 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. Shouu-Jinn Chang

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

---

### Author Benefits

#### 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)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).