

## Special Issue

# Emerging Paradigms and Architectures for Industry 4.0 Applications

### Message from the Guest Editors

This Special Issue aims to report the latest advances in architectures, paradigms and applications in the ever-increasing complex ecosystem of Industry 4.0. Specific topics of interest include, but are not limited to:

- Challenges, visions and concepts for Industry 4.0;
- Novel architectures for the Industrial Internet of Things (IIoT);
- Cloud, fog, mist, edge and mobile edge computing architectures for industrial scenarios;
- Industrial Cyber-Physical Systems (ICPS);
- Advances in the application of Distributed Ledger Technologies (DLT) (e.g., Blockchain, IOTA) to industrial scenarios;
- Industrial Wireless Sensor Networks;
- Low-Power Wide-Area Network (LPWAN) technologies (e.g., LoRa, SigFox, NB-IoT) for Industry 4.0 applications;
- Localization and tracking technologies for Industry 4.0;
- Advanced sensors for Industry 4.0 applications;
- Human-machine interfaces and interactions in human-centric smart industrial systems;
- Advanced machine learning and artificial intelligence for Industry 4.0.

Prof. Dr. Sérgio I. Lopes

---

### Guest Editors

Dr. Paula Fraga-Lamas

Dr. Tiago M. Fernández-Caramés

Dr. Sérgio Ivan Lopes

---

### Deadline for manuscript submissions

closed (15 March 2021)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/28778](https://mdpi.com/si/28778)

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

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





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



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



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### 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, Inspec, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )