

## Special Issue

# AI and IoT in Revolutionizing Civil Infrastructure

### Message from the Guest Editors

This Special Issue encourages authors to submit research results covering the role of IoT and AI in the lifecycle of various civil infrastructure (such as buildings, roads, bridges, dam, railway, and sewerage system). Contributions addressing relevant concepts, design, and implementation as well as state-of-the-art review work are welcome. Topics of this Special Issue include, but are not limited to, the following:

- IoT systems for smart civil infrastructure;
- Application of computer vision, machine learning, and deep learning;
- AI and IoT for construction project management;
- AI and IoT for construction material research and development;
- Intelligent fault monitoring, detection, and diagnostics;
- Multi-sensor data fusion for IoT;
- Autonomous pavement condition assessment.

---

### Guest Editors

Dr. Ethiopia Nigussie

Department of Future Technologies, University of Turku, Turku, Finland

Dr. Woubishet Zewdu Taffese

Department of Civil Engineering, Aalto University, Espoo, Finland

---

### Deadline for manuscript submissions

closed (20 November 2021)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/70473](https://mdpi.com/si/70473)

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

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





# 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, CAPlus / SciFinder, and other databases.

#### Journal Rank:

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