

## Special Issue

# Advanced Railway Infrastructures Engineering

### Message from the Guest Editors

This Special Issue will bring together the latest research studies, findings, and achievements regarding advanced planning, design, construction, monitoring, maintenance, and management of railway infrastructures, including, but not limited to the following:

- Transportation geotechnics and train-induced ground vibrations
- Health monitoring, inspection, NDT&E (non-destructive testing and evaluation), and signal processing
- Big data analytics and railway operations
- Multi hazards and climate change adaptation
- Train-track interaction, vehicle-infrastructure interaction, and wheel-rail interface
- Safety, reliability, and runnability of railway infrastructure in strong winds and/or earthquake-prone areas
- Drainage, surveying, photogrammetry, remote sensing, and drone technology
- Intelligent railway and transportation technologies
- Structural integrity, fatigue, and residual lifetime
- Weigh-in-motion and wheel defect detection of the railway, damage detection of rolling stocks

We are looking forward to receiving your contribution.  
Dr. José A.F.O. Correia

---

### Guest Editors

Dr. Araliya Mosleh

Prof. Dr. José António Correia

Prof. Dr. Diogo Ribeiro

Dr. Anna M. Rakoczy

---

### Deadline for manuscript submissions

closed (20 December 2021)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/76536](https://mdpi.com/si/76536)

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