# Special Issue

# Advances in Pavement Engineering: Materials, Performance, and Sustainability

# Message from the Guest Editors

This Special Issue highlights the latest advancements in pavement engineering, focusing on innovative materials, performance-driven design, and strategies for sustainable development. As transportation infrastructure is increasingly challenged by climate change, rising traffic demands, and resource limitations, the need for resilient, durable, and environmentally sustainable pavement systems has never been greater. Recent progress in this field spans the design and characterization of novel materials, improved mechanistic understanding of pavement behavior under extreme weather events, and the integration of sustainability metrics into maintenance and rehabilitation planning. Contributions are invited on, but not limited to, the following topics:

- Innovative and sustainable materials for asphalt and concrete pavements;
- Advanced performance testing and modeling of pavement structures;
- Climate resilience and adaptation strategies in pavement engineering;
- Pavement management systems, maintenance strategies, and decision-making tools;
- Life cycle cost analysis (LCCA) and life cycle assessment (LCA) in pavement systems.

We look forward to your contributions!

#### **Guest Editors**

Dr. Xiao Chen

Department of Civil and Environmental Engineering, School of Engineering, Rutgers University, New Brunswick, NJ 08854, USA

Dr. Guangji Xu

School of Transportation, Southeast University, Nanjing 211189, China

### Deadline for manuscript submissions

20 June 2026



# Infrastructures

an Open Access Journal by MDPI

Impact Factor 2.9 CiteScore 6.0



mdpi.com/si/257480

Infrastructures
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
infrastructures@mdpi.com

mdpi.com/journal/infrastructures





# Infrastructures

an Open Access Journal by MDPI

Impact Factor 2.9 CiteScore 6.0



# **About the Journal**

# Message from the Editor-in-Chief

You are invited to contribute a research article, review or short communication for consideration and publication in *Infrastructures* (ISSN 2412-3811). There is no restriction on the length of the papers. *Infrastructures* is published in open access format. The scientific community and general public have unlimited free access to the content as soon as it is published. *Infrastructures* is supported by the authors by the payment of article processing charges for accepted manuscripts. Please consider *Infrastructures* as an exceptional opportunity to publish your work.

### Editor-in-Chief

#### Dr. Pedro Arias-Sánchez

Applied Geotechnologies Group, Department of Natural Resources and Environmental Engineering, School of Mining Engineering, University of Vigo, 36310 Vigo, Spain

### **Author Benefits**

### **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

# **High Visibility:**

indexed within Scopus, ESCI (Web of Science), Inspec, and other databases.

### **Journal Rank:**

JCR - Q2 (Construction and Building Technology) / CiteScore - Q1 (Building and Construction)

