



Advanced Research in Geotechnics for Sustainable Infrastructure Development

Guest Editors:

Dr. Troyee Dutta

Assistant Professor, Department of Civil Engineering, Indian Institute of Technology Kharagpur, West Bengal 721302, India

Dr. Yang Li

Department of Civil and Environmental Engineering, Northwestern University, Evanston, IL 60208, USA

Dr. Amir Tophel

ARC Industrial Transformation Research Hub (ITRH)–SPARC Hub, Department of Civil Engineering, Monash University, Clayton Campus, Clayton, VIC 3800, Australia

Deadline for manuscript submissions:

20 November 2024

Message from the Guest Editors

Pavement geotechnics is at the forefront of sustainable infrastructure development, integrating novel design methodologies with a focus on durability, recyclability, and resource efficiency. These innovative approaches prioritize the use of environmentally friendly materials such as recycled aggregates, fly ash, and reclaimed asphalt pavement, reducing carbon footprints and promoting circular economy principles in pavement construction. Moreover, climate-resilient pavement design strategies are essential in mitigating the impact of extreme weather events and changing climate patterns.

In addition to these core themes, submissions are welcomed on various pertinent topics within pavement geotechnics for sustainable infrastructure development. These include advancements in smart pavement technologies, such as the integration of sensors and data analytics for performance monitoring and traffic management. Exploration of green infrastructure solution integration. Additionally, discussions on life cycle assessment and cost–benefit analysis methodologies to evaluate the environmental and economic impacts of pavement materials and construction practices are sought after.





an Open Access Journal by MDPI

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

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.

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 (*Engineering, Civil*) / CiteScore - Q1 (Building and Construction)

Contact Us

Infrastructures Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/infrastructures
infrastructures@mdpi.com