

Special Issue

Advanced Research in Geotechnics for Sustainable Infrastructure Development

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.

Guest Editors

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Deadline for manuscript submissions

closed (20 July 2025)



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