Special Issue

Sustainable Life Cycle Approaches in Road Construction, Pavement Engineering, and Management

Message from the Guest Editors

This Special Issue aims to explore integrated life cycle approaches that encompass the entire lifespan of road infrastructure—from design, material production, and construction to maintenance, rehabilitation, and end-of-life management. By addressing the environmental, economic, and social dimensions of sustainability, this Special Issue aligns with the journal's scope on advancing innovative, interdisciplinary methods for sustainable infrastructure development. We welcome original research articles and review papers covering (but not limited to) the following themes:

- Life Cycle Assessment (LCA), Life Cycle Cost Analysis (LCCA), and Social LCA in road engineering;
- Circular economy and decarbonization strategies in pavement design and maintenance;
- Sustainable construction practices and material innovations:
- Resilience and long-term performance in infrastructure planning;
- Digital tools (e.g., BIM, DT) for sustainable infrastructure management.

We look forward to receiving your contributions.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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