

Special Issue

Innovative Solutions for Resilient, Sustainable and Durable Infrastructure Systems

Message from the Guest Editors

Transitioning to sustainable and resilient infrastructure is a critical global priority. Infrastructure systems and networks are pressured by climate change, aging assets, increasing service demand and environmental regulations. Therefore, it is important to identify innovative solutions that reduce environmental impacts while enhancing infrastructure durability and performance. This Special Issue focuses on the latest advancements in infrastructure technology, materials and management strategies that improve the sustainability, durability and resilience of infrastructure. We welcome and invite the submission of original research and review articles that address the following topics: (i) Innovative materials and composites for infrastructure applications; (ii) structural design, rehabilitation, and maintenance strategies; (iii) life-cycle assessment, carbon footprint, and sustainability evaluation; (iv) resilience modeling, risk assessment, and adaptation to climate and operational challenges; and (v) digital tools for infrastructure management, monitoring, and decision support.

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