

# Special Issue

## Resilient and Sustainable Bridges: Integrating Design, Construction, and Maintenance

### Message from the Guest Editors

This Special Issue aims to provide an integrated platform that advances knowledge and practice of resilient and sustainable bridge systems by linking together design, construction, and maintenance, at the levels of both individual structures and entire networks.

The Special Issue will focus on emerging technologies, advanced materials, and data-driven strategies that improve structural safety, durability, and lifecycle efficiency across interconnected bridge systems. Topics of interest include, but are not limited to, climate-resilient bridge and network design, sustainable material applications (e.g., UHPC, recycled materials, and composites), accelerated construction techniques, structural health monitoring, digital twin technologies for individual bridges and networks, AI-driven bridge management, lifecycle assessment, and performance-based maintenance strategies. Emphasis will also be placed on interdisciplinary approaches that combine engineering design, construction innovation, and smart monitoring systems to improve adaptability, reduce environmental impacts, and strengthen the resilience of entire bridge networks.

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### Deadline for manuscript submissions

31 July 2026



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CiteScore 6.0



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