# **Special Issue**

# Sustainable Design and Upgrading of Bridges: From Life-Cycle Thinking Principles to Life-Cycle Analysis

### Message from the Guest Editors

This Special Issue aims to collect high-quality contributions that promote a shift toward integrated and forward-looking strategies for bridge retrofitting/replacement. We welcome original research articles and comprehensive reviews, including (but not limited to) the following topics, applied to bridge structures:

- Life-cycle assessment and cost analysis for retrofitting/replacement.
- Performance-based and sustainability-oriented design methods.
- Probabilistic modelling of deterioration and reliability over time.
- Climate-adaptive strategies and multi-hazard design approaches.
- Digital tools for life-cycle management.
- Case studies on (sustainable) bridge design or retrofitting.

#### Guest Editors

Dr. Nicola Scattarreggia
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### Deadline for manuscript submissions

31 March 2026



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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

Prof. Dr. Steve W. Lyon

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