



Assessing and Extending the Service Life of Bridges

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Message from the Guest Editors

Transportation infrastructure systems constitute the economic lifelines of any society. Understanding the aging processes of bridges and developing ways to extend their service lives can significantly influence and improve the long-term management of bridge structures worldwide, resulting in important economic benefits. Advancements in construction materials, structural systems, design processes, repair procedures, and maintenance practices can all positively impact the service life of bridges. In addition, understanding the deterioration mechanisms and factors affecting the service life of bridges must be enhanced through research. Probabilistic and deterministic tools must be developed to assess the long-term effects of various mitigation techniques being developed.

- Bridges
- service life
- durability
- advanced materials
- rehabilitation
- life extension
- survival analysis
- reliability
- preventive maintenance
- probabilistic models





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Message from the Editor-in-Chief

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