Special Issue

Assessing and Extending the Service Life of Bridges

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

Guest Editors

Prof. Dr. Habib Tabatabai

Department of Civil and Environmental Engineering, University of Wisconsin-Milwaukee, 3200 N Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Bruno Briseghella

College of Civil Engineering, Fuzhou University, Fuzhou 350108, China

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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