



Advances in Intelligent Bridge: Maintenance and Monitoring

Guest Editor:

Dr. Jia Wang

School of Transportation,
Southeast University, Nanjing
211189, China

Deadline for manuscript
submissions:

20 September 2024

Message from the Guest Editor

In the field of infrastructure engineering, bridges are critical for transportation and urban development. However, with age and exposure to environmental factors, their maintenance and monitoring become complex. Intelligent technologies, such as advanced sensor systems, artificial intelligence (AI), machine learning, and big data analytics, offer innovative solutions for these challenges. These technologies facilitate real-time data collection, predictive maintenance, and informed decision-making, enhancing bridge longevity and reliability while mitigating failure risks.

We invite authors to contribute to our Special Issue with insights, studies, and innovations in intelligent bridge maintenance and monitoring. Submissions may address topics including:

- New Sensor Technology
- AI Algorithm for Bridge Health Monitoring
- Automated Inspection Techniques
- Advanced Materials for Bridge Repair and Reinforcement





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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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.

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Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
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