Special Issue

Bridge Modeling, Monitoring, Management and Beyond

Message from the Guest Editor

This Special Issue is a broad attempt to bring state-of-the-art research on various aspects of bridge mechanics, from dynamic modeling and simulations to inverse dynamics incorporating diagnostics techniques such as structural health monitoring. The Special Issue is not only limited to the technical developments in modeling and monitoring frontiers but also covers the stakeholder-end post-diagnostics processes. Topics included in this Special Issue include but are not limited to:

- Bridge health monitoring
- Bridge condition assessment/diagnostics
- Emerging sensing techniques/sensor technologies for bridge monitoring
- Bridge dynamics
- Finite element modeling and model updating
- Damage identification and classification
- Predictive systems for prognostics/remaining useful life
- Digital twins
- Machine learning applications for bridge infrastructure
- Hazard and risk analysis for bridges
- Performance assessment of bridges
- Bridge decision support systems
- Bridge maintenance, retrofit, and management
- Bridge networks

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