Special Issue

Fatigue Assessment of Elderly Metallic Bridges

Message from the Guest Editor

More accurate and reliable prediction of the fatigue damage accumulation rate and the remaining life of aged metallic bridges is ever more important. Improvements in the fatigue assessment of metallic bridges will lead to the more effective use of limited and stretched resources and can reduce the rate of rehabilitation/repair or unwarranted early replacement, thus keeping the transport networks operating for longer periods without unnecessary disturbances. In this Special Issue, novel contributions highlighting recent developments and advancements in the fatigue analysis and assessment of metallic bridges are warmly invited. We seek high-quality articles focused on all aspects related to the fatigue of metallic bridges, including analytical, numerical, and experimental studies on riveted and/or welded bridges.

- Advanced fatigue assessment methodologies;
- Fatigue analysis assisted by numerical modelling;
- Experimental fatigue studies on metallic bridges and components;
- Structural health monitoring for fatigue assessment;
- Case studies on fatigue damage cases on metallic bridges;
- Field measurements on existing bridges;
- Probabilistic/reliability-based fatigue assessment.

Guest Editor

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