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Real-Time Monitoring Technology for Built Infrastructure Systems

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Deadline for manuscript submissions:
closed (15 December 2024)

Message from the Guest Editors

Real-time detection of built infrastructure systems is rapidly gaining prominence for traditional (e.g., railways, bridges, pipelines) and emerging (e.g., wind turbines) infrastructure. While damage detection and structural health monitoring remain key questions, detection of other features of interest includes control, repair/rehabilitation, and other lifetime performance measures. This Special Issue addresses new methods, infrastructure demands, feature development, and related implementation around the question of 'real-time', in its widest interpretation. The topics include but are not limited to:

- Recursive methods for real-time detection;
- Model updating;
- Digital twinning;
- Sensor placement strategies;
- Sensor comparison;
- Monitoring design;
- Novel features of interest;
- Creation of robust detection of markers;
- Artificial Intelligence;
- Guidelines of reproducibility and accuracy;
- Quantification and qualification of uncertainty;
- Health-monitoring-informed decision support;
- Surrogate modeling applications;
- Advanced computer vision.

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Message from the Editor-in-Chief

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