Special Issue

AI-Oriented Sensing for Civil Engineering Applications

Message from the Guest Editors

In this special issue, we would like to show the various possibilities for utilizing advanced technologies in civil engineering, and therefore, we would like to place the highest emphasis on novelty. Topics include, but are not limited to, the following:

- Application of structural damage inspection and disaster investigation using image analysis with AI
- Application of AI to evaluate deflection and structural damage from vibration measurement results
- Prediction of future conditions or evaluation of current conditions from measurement results using AI
- Applications of advanced sensors, such as optical fiber sensors, which promote the use of AI in civil engineering
- Application of AI to analyze three-dimensional point cloud data in civil engineering
- Application of data platforms that facilitate the use of measurement data with AI analysis.

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Deadline for manuscript submissions

closed (20 July 2022)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/59521

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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