Special Issue

Infrastructure Health Monitoring and Automated Inspection Using Machine Learning and Computer Vision

Message from the Guest Editors

Important developments in computer vision and machine learning-based sensing, including 2D imaging, 3D laser technologies, smartphones, and unmanned aerial vehicles (UAV), have created new possibilities for monitoring infrastructure. These technologies are rapidly transforming the fields of infrastructure condition assessment, nondestructive evaluation, and structural health monitoring of various infrastructures.This Special Issue focuses on the latest developments in sensing and data analytics for infrastructure condition assessment and automated inspections. Topics of interest in this session include, but are not limited to:

- infrastructure sensing;
- structural health monitoring (SHM);
- infrastructure condition assessment;
- machine learning and deep learning applications;
- computer vision-based assessment;
- feature extraction and data fusion;
- automated and robotic inspection using unmanned aerial and ground vehicles;
- vehicle-mounted roadway inspection;
- digital image correlation;
- other advanced data-centered methods and technologies.

Guest Editors

Dr. Mohamad Alipour

Prof. Dr. Yi-Chang James Tsai

Prof. Dr. Hoon Sohn

Deadline for manuscript submissions

closed (15 July 2023)

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Sensors
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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