Advancements in Remote Sensing and Digital Twins for Bridge Infrastructure

Guest Editors:

Dr. Maria Rashidi

Dr. Masoud Mohammadi

Dr. Linh Truong-Hong

Dr. Vahid Mousavi

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Message from the Guest Editors

Over the last years, emerging technologies have generated significant interests in the management of civil infrastructures. The advanced Unmanned Arial Vehicles (UAV) and laser scanning technologies have become appealing alternatives for labour-intensive, expensive and traditional inspection and maintenance methods, which encouraging the increased use of these methods for bridge infrastructure asset management, especially bridge health monitoring.

This Special Issue invites contributions demonstrating innovative developments in applying remote sensing technologies to bridge health monitoring, as well as case studies highlighting various applications of remote sensing technologies in 3D modelling, assessment and management of bridges in different phases of fabrication, construction, operation, and maintenance.

The potential topics of this Special Issue include, but are not limited to the following remote sensing applications: 3D model reconstruction process of bridges using UAV photogrammetry and TLS; Quality inspection of bridge elements; Computer vision and image analysis; Decision making and process tracking with UAVs in bridge infrastructure tasks.

Special Issue

Editor-in-Chief

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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