

## Special Issue

# Advancements in Remote Sensing and Digital Twins for Bridge Infrastructure

### Message from the Guest Editors

Over the last years, emerging technologies have generated significant interests in the management of civil infrastructures. The advanced Unmanned Aerial 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.

### Guest Editors

Dr. Maria Rashidi

Dr. Masoud Mohammadi

Dr. Linh Truong-Hong

Dr. Vahid Mousavi

### Deadline for manuscript submissions

30 November 2025



## Remote Sensing

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### Message from the Editor-in-Chief

*Remote Sensing* is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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### Editor-in-Chief

Dr. Prasad S. Thenkabail

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