Special Issue

Advances in Remote Sensing and Digital Twins for Management of Civil Infrastructure Assets

Message from the Guest Editors

n recent years, emerging technologies such as Digital Twins and Artificial Intelligence (AI) have revolutionized the monitoring and management of civil infrastructures. Advances in remote sensing, including Unmanned Aerial Vehicles (UAVs), terrestrial laser scanning (TLS), and other sensing platforms, have resulted in efficient, accurate, and cost-effective alternatives to traditional inspection and maintenance methods. These technologies enable comprehensive monitoring of various civil structures, including bridges, tunnels, and buildings, throughout their lifecycle, encouraging the increased adoption of these methods for effective asset management. This Special Issue welcomes contributions demonstrating innovative developments in technologies combining remote sensing with AI and Digital Twins for civil infrastructure asset management, as well as case studies highlighting their applications in the 3D modeling, assessment, and management of civil infrastructures across the fabrication, construction, operation, and maintenance phases.

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Message from the Editorial Board

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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