Special Issue

Laser Scanning in Environmental and Engineering Applications

Message from the Guest Editors

Techniques such as Terrestrial Laser Scanning (TLS), Simultaneous Localization and Mapping (SLAM), Mobile Mapping Systems (MMSs), and airborne or drone-based LiDAR are transforming how we capture and analyze spatial data with high accuracy. These technologies enable the direct acquisition of 3D point clouds, which are applied in areas such as environmental monitoring, geological mapping, urban planning, and civil engineering, as well as architectural documentation, Building Information Modeling (BIM), and infrastructure assessment. This Special Issue highlights survey strategies and applications of laser scanning technologies, offering a comprehensive view of their potential in advancing environmental and engineering practices. We welcome papers showcasing novel approaches, methodological advancements, and interdisciplinary applications of laser scanning. Studies on acquiring, processing and integrating data acquired with different technologies are also encouraged.

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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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