Special Issue

Advancing UAV-Based Remote Sensing: Innovations, Techniques and Applications (Second Edition)

Message from the Guest Editors

Unmanned Aerial Vehicles (UAVs) have revolutionized remote sensing, offering unprecedented opportunities for high-resolution, flexible, and cost-effective data collection. With advancements in UAV technology, sensors, and data processing algorithms, these systems are now integral to various environmental, agricultural, and urban applications. From efficient flight path planning to innovative image enhancement techniques, UAV-based remote sensing continues to expand the boundaries of research and practical applications.

This Special Issue aims to showcase cutting-edge research and practical developments in the field of UAV-based remote sensing. We welcome studies addressing the full spectrum of UAV operations, including flight planning optimization, data acquisition, advanced image processing, and diverse applications in environmental monitoring, disaster response, and precision agriculture. Contributions exploring the integration of multispectral, hyperspectral, and thermal imaging, as well as innovative uses of machine learning and artificial intelligence for UAV applications, are highly encouraged.

Guest Editors

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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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