Special Issue

Unmanned Aerial Systems (UAS) for Global Challenges: Current Technologies and Future Prospects

Message from the Guest Editors

Unmanned aerial systems (UAS) are currently a hot topic of research and education, with research being stimulated by industry and commerce all over the world. Innovative techniques in using unmanned aerial systems (UAS) for data acquisition and processing. Autonomous UAS flight missions.; UAS data acquisition and navigation in GNSS-denied conditions. Direct georeferencing potentials.; Deep learning methods used to process UAS datasets (feature extraction, point cloud classification, etc). Cloud-based and big data solutions for UAS.; On-board real-time UAS data processing and manipulation.; Challenges and best practices in UAS-based multispectral and hyperspectral imaging. UAS hybrid sensor systems and data fusion.; UAS-based solutions for digital twins and virtual and augmented reality.; Standardization and quality control for UAS-based 3D mapping. UAS-based applications for monitoring, documenting, and mapping forestry, infrastructures, wildfire, flooding, landslide, damages, natural hazards, etc. Review articles extensively covering one or more of the above-mentioned topics.

Guest Editors

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Prof. Dr. Francesco Nex

Prof. Dr. Fabio Remondino

Dr. Jesús Balado Frías

Deadline for manuscript submissions

closed (24 November 2023)

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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.

Editor-in-Chief

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