



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

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Deadline for manuscript
submissions:

closed (24 November 2023)

Message from the Guest Editors

Dear Colleagues,

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.





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