Special Issue

Intelligent Processing and Application of UAV Remote Sensing Image Data

Message from the Guest Editor

This Special Issue aims at collecting new developments and methodologies, best practices and applications of UAVs in intelligent processing and application of remote sensing image data.

- Fine 3D reconstruction of buildings/structures
- Autonomous indoor/underground landform 3D reconstruction(shopping malls, train station, underground park, catacombs, carst cave, etc.)
- UAV online target detection and tracking
- Intelligent interpretation of UAV video/image (image classification, feature extraction, target detection, change detection, biophysical parameter estimation, etc.)
- Other on-board sensor data processing (multispectral, hyperspectral, thermal, lidar, SAR, gas or radioactivity sensors, etc.)
- Data fusion: integration of UAV imagery with satellite, aerial or terrestrial data, integration of heterogeneous data captured by UAVs
- Online and real-time processing/collaborative and fleet of UAVs applied to remote sensing
- Applications (urban monitoring, precision farming, forestry, disaster prevention, assessment and monitoring, search and rescue, security, archaeology, industrial plant inspection, etc.)
- Any use of UAVs related to remote sensing

Guest Editor

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Deadline for manuscript submissions

closed (15 March 2025)

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Message from the Editor-in-Chief

Drones is an international open access journal focusing on advancing research in drone science, policy, technology, and applications. Today, drones have become indispensable for policymakers, regulatory authorities, mapping agencies, start-ups, and established firms. Their expanding societal and economic relevance is reflected in the rapid development of new sensors, upgraded platforms, specialized software, and novel applications. The journal provides a central forum for scholars in drone research and applications to exchange findings and innovations. With growing demand for high-quality research, our Editorial Board comprises international leaders and experts across relevant scientific areas. We offer rigorous peer review and rapid publication of papers from across all areas of drone science. We welcome you to submit your next paper to *Drones* and to contribute to the continued advancement of and innovations in the field of drones.

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