Special Issue

Advances in Artificial Intelligence (AI) and Deep Learning (DL) in UAV-Based Remote Sensing

Message from the Guest Editors

The objective of this Special Issue is to bring together groundbreaking research and practical implementations that leverage AI and DL to advance UAV remote sensing. We invite submissions showcasing novel methodologies, innovative algorithms, and real-world applications. Particular focus will be given to challenges such as scalability, accuracy, adaptability, and efficiency in processing UAV data across diverse environmental and operational conditions. Contributions that highlight the development of robust and flexible AI models capable of adapting to varying terrains, weather conditions, and application domains are especially encouraged. **Suggested Themes:**

- Development of AI/DL models for UAV image and video analytics;
- UAV-based environmental and disaster monitoring systems;
- Precision agriculture using UAVs and AI;
- Real-time data processing and analytics for UAV applications;
- AI for multi-sensor integration in UAV platforms;
- Ethical considerations and challenges in UAV data processing.

Guest Editors

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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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