

## Special Issue

# Target Detection, Recognition, Tracking, and Positioning Using Remote Sensing and AI Techniques (Second Edition)

### Message from the Guest Editors

The rapid advancement of AI-driven target detection in remote sensing has enabled applications such as disaster response, traffic monitoring, and autonomous systems. Following the success of the first Special Issue, which attracted high-quality contributions, this second edition highlights progress in this evolving field. Traditional methods based on hand-crafted features often struggle with viewpoint variation, multi-modal data, and non-cooperative targets. In contrast, advances in deep learning and multi-sensor fusion have improved detection accuracy and efficiency, especially for small targets in complex scenes. However, key challenges remain: (1) balancing performance and efficiency for edge deployment; (2) achieving reliable detection and tracking across diverse environments; (3) enabling collaborative perception for real-time monitoring; and (4) understanding relationships among dynamic target groups. This Special Issue focuses on AI-driven remote sensing and multi-source data fusion. It aims to bridge advanced AI and real-world needs, foster cross-disciplinary research, promote robust systems, and enhance recognition of complex non-cooperative targets.

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### Guest Editors

Dr. Wensheng Wang

Dr. Martin Gade

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Dr. Zhirui Wang

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### Deadline for manuscript submissions

28 September 2026



## Remote Sensing

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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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