Special Issue

Integrating Artificial Intelligence and Remote Sensing for Wildfire Detection, Monitoring and Management

Message from the Guest Editor

Wildfires are increasingly impacting ecosystems, biodiversity, and human livelihoods across the globe, driven by climate change, land use practices, and human activity.

This Special Issue invites manuscripts that highlight the transformative potential of integrating artificial intelligence (AI) and remote sensing technologies in wildfire science and management. By combining multi-source Earth observation products—from satellites, aircraft, and ground-based platforms—with advanced AI techniques such as machine learning, deep learning, and data fusion, researchers and practitioners can significantly enhance the speed, accuracy, and scalability of fire-related insights. These innovations contribute to a deeper understanding of the complex interactions between wildfires, ecosystems, and society, and support the development of actionable strategies to improve wildfire management, ecosystem resilience, and multifunctionality.

Guest Editor

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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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