## Special Issue

# Artificial Intelligence for Optical Remote Sensing Image Processing

#### Message from the Guest Editors

In the field of remote sensing, optical remote sensing image processing plays a pivotal role in extracting valuable information from the Earth's surface. With the rapid advancement of technology, artificial intelligence (AI) has emerged as a game-changer in this field, revolutionizing the way we analyze and interpret optical remote sensing images. This field integrates machine learning, deep learning and computer vision techniques to address challenges such as noise reduction, feature extraction and semantic segmentation in satellite and aerial imagery. Innovations like convolutional neural networks (CNNs) and generative adversarial networks (GANs) enable real-time analysis, supporting applications in environmental monitoring, urban planning and disaster response. All has brought about a new era in optical remote sensing image processing. It has not only improved the efficiency and accuracy of image analysis but also opened up new possibilities for various applications. As AI technology continues to evolve, we can expect even more innovative solutions in this field, further advancing our ability to monitor and understand our planet.

#### **Guest Editors**

Prof. Dr. Wei Fang

School of Computer, Engineering Research Center of Digital Forensics, Ministry of Education, Nanjing University of Information Science and Technology, Nanjing 210044, China

Prof. Dr. Daniele Bortoli

Department of Physics, Center for Sci-Tech Research in Earth System and Energy (CREATE), School of Science and Technology, University of Évora, 700-671 Évora, Portugal

#### Deadline for manuscript submissions

26 March 2026



an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 8.6



mdpi.com/si/252487

Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

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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 peerreview 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

#### Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

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