

Special Issue

Application of Remote Sensing in Forest and Grassland Fire Management

Message from the Guest Editors

Remote sensing, as the "eye of heaven" for observing forests, grasslands, and external environment, is playing an irreplaceable role in fire management. Sensors on different platforms can penetrate smoke, cross regions, and capture spectral anomalies of key parameters. Fire management based on remote sensing achieved a "perspective" management of the entire fire life cycle: before the disaster, risk warning is achieved by constructing a combustible humidity and distribution model; during a disaster, the fire point can be accurately located, the dynamic spread of the live line can be monitored in real time, firefighting plans can be formulated, and personnel safety can be ensured. Accurately assessing the burned area and ecosystem damage after a disaster provides a quantitative basis for ecological restoration. Therefore, developing remote sensing fire management capabilities is not only a technological cornerstone for improving disaster prevention, reduction, and relief capabilities, but also a national strategic requirement for safeguarding national ecological security and responding to the increasingly severe fire danger situation under the background of global climate change.

Guest Editors

Dr. Xingpeng Liu

Prof. Dr. Jiquan Zhang

Dr. Ali Hassan Shabbir

Dr. Zhijun Tong

Deadline for manuscript submissions

16 March 2026



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/253246

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 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

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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