

## Special Issue

# Remote Sensing in Fire Management: Current Challenges and Future Directions

### Message from the Guest Editors

Remote sensing plays a crucial role in fire management by providing vital data for monitoring, modeling, and decision-making processes related to wildfires. Here are some current challenges and future directions in this field:

- Data Resolution and Availability
- Real-Time Analysis
- Data Interpretation
- Fire Behavior Modeling
- Integration with Ground Data
- Environmental and Ecological Impact Assessments

This Special Issue invites submissions for papers that cover all elements of data resolution and analysis/interpretation, as well as advanced artificial intelligence-based fire detection systems. Topics of interest include, but are not limited to, the following:

- Advanced Sensors and Platforms
- Artificial Intelligence and Machine Learning
- Integrated Data Platforms
- Improved Modeling Techniques
- Community and Stakeholder Engagement
- Policy Development and Collaboration

We look forward to receiving contributions that address these challenges and explore future directions.

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### Guest Editors

Dr. Houda Harkat

Dr. José M. P. do Nascimento

Dr. João Pedro Matos-Carvalho

Dr. Hasmath Farhana Thariq Ahmed

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### Deadline for manuscript submissions

25 March 2026



## Fire

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## About the Journal

### Message from the Editor-in-Chief

*Fire* is an international open-access journal about the science, policy, and technology of fires and how they interact with communities and the environment. *Fire* seeks to provide a forum to help the fire science community convey how we can live with fire in a changing world. *Fire* seeks submissions from interdisciplinary studies that take a pyrogeography perspective of fires occurring in natural, cultural, and industrial landscapes and how they interact with communities in the science-policy interface. *Fire's* Editorial Board are widely recognized international leaders. The journal emphasizes quality and innovation and has a rigorous peer-review process. I strongly recommend *Fire* for the rapid publication of your innovative research publications and case studies.

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### Editor-in-Chief

Dr. Grant Williamson

School of Biological Sciences, University of Tasmania, Private Bag 55,  
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