

## Special Issue

# Understanding, Monitoring, and Responses to Wildfires with New Sensors

### Message from the Guest Editors

Active wildfires are complex phenomena that have an important role in Earth's biogeochemical cycles. Active fires remote sensing has been used in the last 60 years. Geostationary and constellation allow detection, FRP, and evaluation of the degradation of air quality respectively on hourly and daily basis. The generated products are extremely valuable to monitor active fires. New multi-hyperspectral-thermal spaceborne sensors offer potential for active fire characterization. In this Special Issue, original research articles, case reports, conference papers and reviews are welcome. Research areas may include (but are not limited to) the following:

- Algorithms improvements and new methods including deep learning approaches, in relation to space borne missions for characterization of active fires.
- Synergetic use of multiple missions' data to exploit the potential of a virtual constellation for active fires characterization, behavior, rate of spread, impact and response.
- Exploitation of data from high spatial resolution sensors to better understand uncertainties in active fires characterization derived by remote sensing data at coarser resolution.

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### Guest Editors

Dr. Stefania Amici

Dr. Dario Spiller

Dr. Ioannis Gitas

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### Deadline for manuscript submissions

closed (25 September 2024)



## 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

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