Special Issue

Advances in Remote Sensing for Burned Area Mapping

Message from the Guest Editors

This Special Issue integrates traditional detection approaches with geospatial analyses and thematic mapping, focusing on post-fire consequences such as fire severity, fire regime, biomass loss, hydrogeological alterations, microclimatic variations, landscape changes, and human-related consequences—including health risks, infrastructure damage, and degraded ecosystem services—which are essential for a comprehensive understanding of fire-induced ecological and socio-economic impacts. Studies employing multi-scale, multi-sensor—including passive (multispectral, hyperspectral, thermal) and active (SAR, LiDAR) data—multi-platform (satellite, airborne, UAV, proximal sensors) remote sensing are encouraged to enhance spectral and structural details. This also encompasses approaches entailing geo-statistical, geo-informatic, geomatic, and geographical information systems (GISs), spectral mixture analysis, 3D modeling and up-to-date modeling/processing algorithms.

Guest Editors

Dr. Giandomenico De Luca

Prof. Dr. Giuseppe Modica

Dr. Lorenzo Arcidiaco

Deadline for manuscript submissions

31 October 2025

Fire

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.

Editor-in-Chief

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