Special Issue

Advanced Approaches to Wildfire Detection, Monitoring and Surveillance—2nd Edition

Message from the Guest Editors

Wildfires continue to pose significant threats to ecosystems, human safety, infrastructure, and property, especially under the increasingly adverse effects of climate change. The first edition of this Special Issue successfully gathered innovative research on early wildfire detection, remote sensing, surveillance systems, and post-fire analysis—contributing valuable insights into how artificial intelligence and integrated monitoring and surveillance systems can mitigate wildfire damage. Building upon this foundation, the second edition aims to showcase the rapid evolution and broadening of methodologies in wildfire detection and monitoring.

- wildfire detection
- fire detection
- smoke detection
- flame detection
- wildfire monitoring
- wildfire surveillance
- remote sensing
- wildfire detection validation and testing
- burned-area monitoring
- burned-area analysis
- wildfire risk estimation
- wildfire spread simulation
- virtual reality (VR)
- augmented reality (AR)

Guest Editors

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Dr. Giovanni Laneve

Deadline for manuscript submissions

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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.

Editor-in-Chief

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