fire

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Monitoring Wildfire Dynamics with Remote Sensing

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Deadline for manuscript submissions:
31 December 2024

Message from the Guest Editors

Dear Colleagues,

Forest fires are one of the most devastating factors in most vegetation zones worldwide, including forests and grasslands. Drones, unmanned aerial vehicle (UAV), and remote sensing technology can be extremely useful in estimating the risk of forest fires across wide areas. This Special Issue invites submissions for papers that cover all elements of aerial image/video capture and processing, as well as advanced artificial intelligence-based fire detection systems. The following topics are included, but are not limited to:

- Building mathematical models for fire propagation in forest environment relying on sensors data.
- Automatic detection and localization of flames based on machine learning algorithms over RGB and hyperspectral images/videos
- Real-time wildfire monitoring and forecasting frameworks.
- Measure of Wildfire risk to support decision-making.
- Mapping of wildfire based on Multitemporal Multispectral satellite data and probabilistic mathematical models.
- Data treatement of internet of things (IoT) Sensor Networks for Decision Support in wildFire management.

We look forward to receiving your contributions.

Guest Editors

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Special Issue