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## Detecting, Mapping, and Characterizing Wildfires Using Remote Sensing Data

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Deadline for manuscript  
submissions:

**closed (31 March 2023)**

### Message from the Guest Editors

Dear Colleagues,

Wildfires have a profound influence on ecosystem structure and function, energy feedbacks to the climate system, regional socioeconomic conditions, and future land use planning. Quantifying wildfires remains challenging, although considerable efforts have been devoted during the last several decades. Therefore, this Special Issue aims to collect articles concerning the quantification of wildfires using observations from satellite (including PlantScope, Landsat, Sentinel-2, MODIS, VIIRS, and geostationary satellites), airborne sensors, and unmanned aerial vehicles. The specific topics include:

- New algorithms of detecting actively burning fires and mapping burned areas, particularly in areas dominated by small and/or cool fires and frequently obscured by clouds.
- Evaluation and validation of existing and emerging fire products using fine resolution fire observations and ground-based fire measurements.
- Characterization of fire behaviors at landscape scale.
- Characterization of diurnal cycles of fire activity and long-term fire regimes at regional and global scales.
- Examination of long-term variations of regional and global fire activities.



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# Special Issue



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## Message from the Editor-in-Chief

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