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Understanding, Monitoring, and Responses to Wildfires with New Sensors

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Message from the Guest Editors

Dear Colleagues,

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.