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New Applications of GIS and Remote Sensing to Monitor and Predict Fire Hazard Risk and Effects

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submissions:

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Message from the Guest Editors

The development of new geospatial technologies and innovative advanced data analysis is leading to significant progress in the monitoring, mapping, and prediction of fire hazard, risk, and effects. New GIS and remote sensing technologies, new satellite and/or radar sensors, and cloud-based imagery processing tools (e.g., Google Earth Engine) are being applied to monitor and characterize fuel hazard, fuel moisture, fire behavior, burned area, burn severity, and fire effects (e.g., fire emissions, fuel consumption, tree mortality and regeneration). Improved predictions of fire occurrence, spread, intensity, and risk are being developed by integrating GIS and remote sensing information, using innovative statistical and simulation approaches. This Special Issue that will focus on the development of innovative applications of GIS, spatiotemporal modeling, and remote sensing to monitor and predict fire hazard, behavior, risk, and effects. Contributions are welcome on the following topics:

1. **Monitoring of Fire Hazard, Behavior, Risk, and Effects with GIS and Remote Sensing.**
2. **Prediction of Fire Hazard, Behavior, Risk, and Effects with GIS and Remote Sensing.**



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