Special Issue

Advanced Approaches in Fire Detection and Prediction

Message from the Guest Editors

Over the last decade, fires have killed hundreds of people and ravaged forests all over the world. In addition to the socioeconomic impact in terms of loss of human lives and first responders, health, infrastructure, and economic activity, fire events also have serious and irreversible ecological impacts when considering soil degradation, water scarcity, and biodiversity loss. This Special Issue will propose innovative approaches tailored to fire risk detection. Papers are invited that investigate more advanced techniques, models, solutions, and capabilities for preventing, predicting, monitoring fire risk, including advanced technologies, equipment, and decision support systems for first responders. Topics may include computer vision methods for fire and/or smoke detection via visible, IR, and multi-spectral range of ground and/or aerial videos/images. Moreover, papers are welcome that deal with fire propagation forecasting, thanks to models based on precise topography, weather, fuel, and combustion modeling via sensor data.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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