Special Issue

Fire Spread Modelling in Wildland Urban Interface: Approaches and Challenges

Message from the Guest Editors

Wildfires in wildland–urban interface communities have rapidly grown in occurrence and strength over the past few decades due to the growing pace of urbanization and landscape transformation. Although the mechanisms of fire spread in WUIs have been identified, developing models that can predict fire spread in WUIs is expected to be more challenging, mainly due to the heterogeneity characteristic of fuel. This Special Issue aims to cover the current state of WUI modeling and existing knowledge on exposure conditions caused by nearby wildland fuels, adjacent structures or other system-wide components. Original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Wildland urban interface (WUI);
- CFD simulation, modeling;
- Fuel flammability;
- WUI vegetation;
- Numerical combustion;
- Fire behavior;
- Wildfire risk assessment and management.

We look forward to receiving your contributions.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Fire is an international open-access journal about the science, policy, and technology of fires and how they interact with communities and the environment. *Fire* seeks to provide a forum to help the fire science community convey how we can live with fire in a changing world. *Fire* seeks submissions from interdisciplinary studies that take a pyrogeography perspective of fires occurring in natural, cultural, and industrial landscapes and how they interact with communities in the science-policy interface. *Fire*'s Editorial Board are widely recognized international leaders. The journal emphasizes quality and innovation and has a rigorous peer-review process. I strongly recommend *Fire* for the rapid publication of your innovative research publications and case studies.

Editor-in-Chief

Dr. Grant Williamson
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