Special Issue

Building Fire Prediction and Suppression

Message from the Guest Editors

Complex buildings and underground infrastructures are both products of modern society and play important roles in economic development. In this Special Issue, original research articles and reviews are welcome on areas that may include (but are not limited to) the following:

- **Fire suppression:**
  - Fundamental research on the interactions of fire dynamics and the characteristics of suppression agents;
  - Fire suppression performance and optimization of water-based firefighting systems;
  - Fire suppression in lithium-ion battery fires;
- **Complex Building and Tunnel Fire Safety:**
  - Smoke movement and control strategies under various ventilation conditions;
  - Fire behavior and smoke propagation in tunnels with different slopes and ventilation systems;
  - Evacuation modeling and occupant behavior in complex fire scenarios.
- **Smart Firefighting Technologies:**
  - Machine learning and AI applications for fire detection and prediction;
  - Sensor networks for real-time fire monitoring and data analysis;
  - Decision support systems for optimizing firefighting strategies.

Guest Editors

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Deadline for manuscript submissions

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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

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