Special Issue

Research Advances in Risk Assessment and Management of Fire Accidents Across Diverse Sectors

Message from the Guest Editors

Fire incidents frequently occur across various sectors worldwide—including industrial sectors and public infrastructures—and often lead to catastrophic consequences. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Advanced methodologies for fire risk assessment and management;
- Organizational and human factors in fire risk management;
- Risk modeling of fire-related accidents in various sectors and environmental settings, including process industries, public sectors, etc.;
- Safety barrier management in relation to fire accidents;
- Consequence modeling of fire accidents;
- Safety economics approaches for fire risk management;
- Risk-based optimization of firefighting strategies;
- Leveraging AI and machine learning techniques for fire risk management;
- Risk-assisted evacuation planning for fire accident scenarios.

Guest Editors

Dr. Shuaiqi Yuan

Dr. Yiping Bai

Dr. Tao Zeng

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Prof. Dr. Genserik Reniers

Deadline for manuscript submissions

31 December 2025

Fire

MDPI

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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