

## 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.

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### Guest Editors

Dr. Shuaiqi Yuan

Dr. Yiping Bai

Dr. Tao Zeng

Prof. Dr. Fuqiang Yang

Prof. Dr. Genserik Reniers

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### Deadline for manuscript submissions

31 December 2025



## Fire

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## About the Journal

### Message from the Editor-in-Chief

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#### Editor-in-Chief

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