Special Issue

Intelligent Fire Safety Solutions in Urban Architecture: Innovations and Challenges

Message from the Guest Editors

This Special Issue seeks cutting-edge research on integrating advanced technologies into urban fire safety. It aims to:

- Showcase novel frameworks for real-time fire detection, risk prediction, evacuation optimization, and resilient infrastructure design.
- Investigate technical bottlenecks, human behavioral factors, regulatory gaps, and scalability barriers.
- Highlight case studies validating intelligent systems' efficacy in reducing response times, minimizing casualties, and enhancing urban safety governance.
- Promote dialog among researchers in computer science, civil engineering, urban planning, social sciences, and policymaking to co-design human-centric solutions.

Key topics include AI-driven fire prediction, IoT-enabled evacuation systems, digital twin frameworks, human-centric AI, battery fire mitigation, wildfire-urban interface protection, robotics for firefighting, data fusion, policy frameworks, energy-efficient fire safety, cost–benefit analysis, and cross-disciplinary fire models. We encourage full-length articles and communications. Review articles with significant value may also be considered.

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

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