Special Issue

Advances in Structural Fire Engineering

Message from the Guest Editors

Structural fire engineering focuses on the analysis, design, and resilience of structures exposed to fire. Integrating new technologies into fire engineering practice offers opportunities for more accurate prediction and real-time assessment of fire risk.
The SI seeks to consolidate recent research and technological developments, bridging the gap between fire safety regulations, material science, structural engineering, and cutting-edge AI technologies for buildings, bridges, tunnels, etc. The SI highlights the growing demands of fire safety, sustainability, and intelligence in the built environment, pushing the boundaries of fire-resistant design, innovative materials, and smart disaster mitigation. The topics include, but are not limited to:
Fire resistance of innovative and traditional structural materials; Experimental fire testing; Advances in computational methods for simulating fire behavior and structural response; Performance-based fire design methodologies; Innovations in passive and active fire protection systems; Post-fire structural damage assessment and rehabilitation; Critical reviews and advancements in international fire safety regulations.

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

Dr. Grant Williamson
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