# **Special Issue**

# Probabilistic Risk Assessments in Fire Protection Engineering

## Message from the Guest Editors

We are pleased to invite you to contribute your research relating to a challenging topic in engineering. For this Special Issue one can think of the following topics and other:

- Databases that enable extraction of probability values
- Quantitative simulation of fire propagation (Bayesian and Petri network)
- Quantitative evaluation of risk reduction measures:
  - to reduce the chance of fire initiation
  - to limit fire propagation
    - materials choice
    - structural measures
    - layout both process plant and urban planning
    - enhancing early detection
  - to reduce so-called domino effect
- Enhancing the probability of effectively fighting fire.
- Improving the probability not to be suffocated/poisoned by smoke
- Improving the probability not to be injured by radiant heat
- Probability of successful evacuation from fire situation
- Cost-effectiveness considerations based on fire risk assessment
- Ranking measure options and decision making

#### **Guest Editors**

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#### Deadline for manuscript submissions

closed (31 May 2024)



## **Fire**

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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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