fire

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Probabilistic Risk Assessments in Fire Protection Engineering

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Message from the Guest Editors

Dear Colleagues,

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