Special Issue

Application of Artificial Intelligence, Machine Learning, and Numerical Simulations in Fire Engineering and Sciences

Message from the Guest Editors

Artificial Intelligence (AI), Machine Learning (ML), and Numerical Simulations (NS) in Fire Engineering and Sciences are opening the door to new and exciting opportunities in this domain. This special issue aims at showcasing the potential of convergence between AI, ML and NS to deliver unique solutions that can bypass bottlenecks associated with traditional methods. At the same time, this special issue hopes to converge machine learning and traditional methods to distill their advantages and overcome their individual limitations. In a way, the goal of this special issue is to foster works targeting the following potential areas of (as well as those related to such areas): 1. in fire engineering
2. in structural fire design
3. in fire detection, suppression and mitigation
4. in fire-related sensor and software design
5. in materials (e.g., construction, fire-resistive etc.) investigation
6. in decision making for fire engineering applications

Keywords

- fire
- machine learning
- structures
- design
- material

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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