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Design of Building Fire Prevention and Smoke Control

Guest Editors:

Prof. Dr. Fang Liu
School of Civil Engineering, Chongqing University, Chongqing, China

Dr. Longxing Yu
College of Environment and Safety Engineering, Fuzhou University, Fuzhou 350116, China

Dr. Shengzhong Zhao
School of Thermal Engineering, Shandong Jianzhu University, Jinan, China

Deadline for manuscript submissions:
closed (20 September 2022)

Message from the Guest Editors

As the places where humans spend most of their time living and working, buildings must be carefully considered for fire safety. Since casualties in building fires are mainly caused by toxic smoke, research on indoor fire smoke control is demanded and meaningful. The aim of this Special Issue is to provide a platform to present the latest developments in building fire prevention and indoor smoke control, and to discuss possible implications in the associated regulations and standards. Original fundamental and applied research into experimental, theoretical and computational modeling and case studies that contribute towards the understanding and improvement of building fire prevention and indoor smoke control are welcome. Research areas may include (but are not limited to) the following:

- Building fire dynamics;
- Smoke characteristics, transport and control in buildings;
- Performance-based design of building fire;
- New technologies and methods;
- Fire modeling and simulation;
- Human evacuation.

For scholars interested to submit papers to the Special Issue, please click "Submit to Special Issue" or contact Astoria Yao: astoria.yao@mdpi.com.

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Special Issue

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Editor-in-Chief

Prof. Dr. David Arditi
Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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Buildings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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