

Special Issue

Heat Transfer in Fire

Message from the Guest Editors

Heat transfer and temperature analysis are core issues in fire safety engineering. It is temperature that governs the process of deterioration of materials. Therefore, sound knowledge heat transfer and temperature analysis are crucial for the understanding of fire dynamics and fire phenomena such as ignition and fire spread, as well as analysis of the loadbearing capacity of structures exposed to fire. This Special Issue aims at elucidating heat transfer in a wide range of fire scenarios involving various kinds of materials. Articles related to building fires as well as wildfires are welcome. Reports on testing experiences, as well as developments of calculation methods, are of interest. Measuring techniques suitable for harsh fire exposure and the use of data thereof for estimation of exposed body temperature are appreciated. Research areas may include (but are not limited to) the following:

- Ignition properties of materials;
- Measurements of thermal exposure from bushfires;
- Influence of water content on ignition of wood;
- Boundary conditions of fire exposed structures.

I look forward to receiving your contributions.

Guest Editors

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Editor-in-Chief

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