Special Issue

Fire Numerical Simulation

Message from the Guest Editors

Fire numerical simulation plays an important role in fire research. It takes advantage of the advances in mathematics, modeling and computing to capture the underlying physics of complex fire problems and predict fire behaviors at various scales. In addition to experiments, fire numerical simulation allows us to further understand fire and to prevent and contain it. Recently, with the development of the numerical simulation method and computing power, fire numerical simulation has faced new opportunities and challenges. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Current development and application of fire numerical simulation tools;
- Newly developed fire sub-models;
- Physics findings based on fire numerical simulation;
- Case studies with fire numerical simulation to reproduce the real fire scenarios;
- Evacuation and human behavior numerical simulation in fires;
- Fire suppression numerical simulation;
- Numerical simulation regarding fire resistance of structures;
- Wildland fire-induced geological disaster numerical simulation.

Guest Editors

Prof. Dr. Yanming Ding

Dr. Kazui Fukumoto

Dr. Jiaqing Zhang

Deadline for manuscript submissions

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Fire

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About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Dr. Grant Williamson
School of Biological Sciences, University of Tasmania, Private Bag 55,
Hobart, TAS 7001, Australia

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