



Call for Papers:
Special Issue of 2021 on

Scale Modeling for Fire Research

Submission deadline: July 31th, 2021

A real-life fire is in the scale of meters or even kilometers, which makes it difficult to study its structure and character. In order to predict the potential hazard induced by a fire, it is important to have a clear strategy to reconstruct the fire scenario in a laboratory test. Utilizing scale modeling is, hence, considered as effective approach in this regard. With rapid progress in computational power, scale modeling has added computational technique including supercomputing or meta-data analysis to uncover information of interest that would not be obtained by full-scale testing or scale modeling. The role of traditional scale model experiments, however, is well alive by offering a unique tool to validate these computational models.

For this special issue of *Progress in Scale Modeling, an International Journal*, we would like to invite contributors to share their results or progress in experimental, theoretical, computational investigations and case studies that contribute towards the understanding and improvement of scale modeling on fire research, including work on these topics

- Fire dynamics
- Ignition, smoldering, spread and fire growth
- Detection and sensors
- Human evacuation
- Emergency management
- Smoke transport and control
- Fire suppression
- Structural response

Paper submission:

Authors are invited to submit high-quality, original work that has never been published in, or is under consideration by, other journals. All submissions will be peer-reviewed subject to the standards of the journal. Manuscripts based on previously published conference papers must be extended substantially. The journal accepts three types of manuscripts: regular article, review article, rapid communications (up to 6 pages). Upon submission, please write in cover page “this submission goes to special issue of Scale Modeling for Fire Research”. [Submission information](#) is available online.

Deadline:

Manuscripts are accepted through July 31, 2021.

Any question?:

Please contact the managing editor [Yuji Nakamura](#) or the [journal](#).