Special Issue

Coupled Fire-Atmosphere Simulation

Message from the Guest Editors

Considerable effort has been put into the design and implementation of models that enable consideration of the two-way interaction between fire and the atmosphere. This Special Issue provides an opportunity for those involved in modelling the fire–atmosphere system across a range of scales—from fine-scale combustion dynamics to large pyroconvective events—to present their work in a dedicated volume. We therefore invite you to contribute articles to this Special Issue that highlight advances, new insights, technical issues and emerging research directions associated with existing and emerging coupled fire–atmosphere modelling frameworks. Contributions that describe idealised simulations as well as real-world case studies are welcome. It is our intention that this Special Issue will help to promote discussion of important modelling issues and highlight synergies and linkages across the various modelling platforms and reasearch groups, which will lead to fruitful collaboration and progress in modelling the fire–atmosphere system at relevant scales.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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