Special Issue

High Performance Computing Serving Atmospheric Transport & Dispersion Modelling

Message from the Guest Editor

We invite scientists to contribute with original research articles and review articles including future lines of investigations. Topics of interest explore, but are not limited to:

- HPC for Large-Eddy Simulation and Direct Numerical Simulation of AT&D
- Benefit of HPC on GPU processors for AT&D modelling and simulation
- New benefit of HPC for data assimilation in Numerical Weather Prediction and AT&D modelling and simulation
- Accounting for multiple sources of uncertainty in AT&D modelling with HPC using ensemble approach or other approaches
- HPC for downscaling and upscaling AT&D simulations with applications to air pollution, air quality, and the climate change
- Benefit of HPC to AT&D modelling in Decision-Support Systems devoted to natural or anthropogenic hazards

Guest Editor

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Deadline for manuscript submissions

closed (30 May 2021)

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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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