



## High Performance Computing Serving Atmospheric Transport & Dispersion Modelling

Guest Editor:

**Dr. Patrick Armand**

France Atomic and Alternative  
Energies Commission, CEA, DAM,  
DIF, F-91297 Arpajon, France

Deadline for manuscript  
submissions:

**closed (30 May 2021)**

### 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





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## Editor-in-Chief

### **Prof. Dr. Ilias Kavouras**

Environmental, Occupational,  
and Geospatial Health Sciences,  
CUNY School of Public Health,  
New York, NY 10027, USA

## 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!

## Author Benefits

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## Contact Us

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Atmosphere Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

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