

Special Issue

Sensitivity of Local Numerical Weather Prediction Models

Message from the Guest Editor

The operation of Local Numerical Weather Prediction (NWP) Models has become a widespread activity regarding the support of weather forecasting. However, in addition to the complexities of installing NWP Models to the many different computer architectures as well as data assimilation issues, such an undertaking is quite challenging regarding the proper choice of the many internal parameter values for the NWP Models to have the optimum performance. The Special Issue invites contributions that gauge the sensitivity of Local NWP Models for the community of atmospheric sciences to obtain important and operationally useful insights on which parameters display the greatest effect over a variety of domains and weather situations. It is expected that these works will provide a significant resource over a wide framework of relevant methodologies.

Additionally, it will motivate and guide researchers, developers, and end users in general to improve the model performance either heuristically or systematically by adopting the available optimization techniques.

Guest Editor

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Deadline for manuscript submissions

closed (6 February 2024)



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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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