Special Issue

Data Analysis in Atmospheric Research

Message from the Guest Editors

Recently, with the advancement of technology, multi-source data applications in environment protection are becoming increasingly popular. We are pleased to announce a Special Issue dedicated to exploring the latest advancements in the field of multi-source data fusion and atmospheric research analysis. The aim of this Special Issue is to showcase cutting-edge research, data science, methodologies, and practical applications related to the monitoring and assessment of atmospheric research. Original papers on statistical machine learning, data science, and time series analysis, are welcomed in this Special Issue. Topics of interest include, but are not limited to, the following:

- Multi-source data fusion for atmospheric research;
- Big data analysis in atmospheric science;
- Deep learning for predictive modeling in atmospheric science;
- Air quality monitoring using big data;
- Monitoring air quality techniques;
- Simulation, modeling, and optimization;
- Environmental data science;
- Advanced methods;
- Spatial data deep learning;
- The application of satellite products;
- Spatio-temporal analysis.

Guest Editors

Dr. Zhaoxin Dai
Dr. Qi Zhou
Prof. Dr. Yi Wang

Deadline for manuscript submissions

closed (17 April 2025)

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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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