Special Issue

Atmospheric and Land Surface Process Modeling

Message from the Guest Editors

Artificial Intelligence (AI) is playing a more and more essential role in atmospheric and land surface process modeling, including predicting climate change, natural disasters, and optimizing agricultural production. Al can analyze data from atmospheric and surface processes through machine learning algorithms to achieve more accurate prediction and optimization. These applications help to better respond to various changes and challenges in nature, such as predicting extreme weather events, earthquakes, floods, and other natural disasters, thereby helping people take preventive and response measures. This Special Issue aims to bring together top academic scientists, researchers, and research scholars to explore the application of Al in atmospheric and land surface process modeling. It also provides an important interdisciplinary platform for researchers, practitioners, and educators to show and discuss the latest innovations, trends, and concerns in the field, as well as the practical challenges and solutions.

Guest Editors

Prof. Dr. Wei Fang

Dr. Victor S. Sheng

Prof. Dr. Qiguang Wang

Deadline for manuscript submissions

closed (6 October 2023)



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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

Dr. Daniele Contini

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