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Statistical Approaches in Climatic Parameters Prediction

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Deadline for manuscript submissions:
closed (31 October 2023)

Message from the Guest Editors

Statistical methods are commonly applied to obtain insight from underlying data and detecting useful evidence for making informed decisions. The current climate system and potential future changes are investigated through statistical analysis. Moreover, statistical methods are key tools for the production of effective and sustainable solutions to the climate crisis. As a result, numerous statistical techniques are developed and adopted to predict the climatic parameters.

To cover the progress in statistical techniques in forecasting climatic parameters, the open-access journal Atmosphere is hosting a Special Issue titled 'Statistical Approaches in Climatic Parameters Prediction'. The aim of this Special Issue is to provide recent advances in statistical techniques for climatic parameters prediction. This topic comprises numerous probabilistic and statistical approaches and multivariate methods including extreme value analysis of climatic parameters (e.g., rainfall, temperature). The topic is also highly relevant to different engineering applications, such as flood and drought assessment, and the adoption of appropriate construction techniques.

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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!

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Journal Rank: CiteScore - Q2 (Environmental Science (miscellaneous))

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