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# **Application of Homogenization Methods for Climate Records**

Guest Editor:

### Message from the Guest Editor

**Dr. Peter Domonkos** Unaffiliated, 43500 Tortosa, Spain

Deadline for manuscript submissions: closed (14 January 2022)

Dear Colleagues,

The purpose of time series homogenization is to improve the temporal comparability of the observed data to achieve more accurate climate change and climate variability assessments. The accuracy of homogenization depends on the applied methods and the characteristics of homogenization tasks. Effective homogenization is a complex scientific problem. and although the methodological development has been intense in the last three decades, there are still many unresolved questions. The aim of this Special Issue is to provide a review of the theoretical and application strategies of time series homogenization, and of the use of homogenized datasets for climate change and climate variability examinations. We seek original research papers particularly including, but not limited to.

Development of homogenization methods;

Development of quality-controlled and homogenized climatic datasets;

Use of homogenized datasets in climate change and climate variability analysis;

Theoretical aspects of time series homogenization;

Testing of efficiency of homogenization methods;

Development of synthetic datasets for testing homogenization methods.





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# **Editor-in-Chief**

#### Dr. Daniele Contini

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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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