Special Issue

Enhancing the Output of Climate Models for the Assessment of Climate Change Impacts

Message from the Guest Editors

The enhancement of the climate models' output is therefore a key objective of the modern research on climate change impacts. In this Special Issue, we are seeking for high-quality original research articles, focused on state-of-the-art and innovative techniques for the analysis of climate models' output addressing: the estimation of future changes of climate extremes, the major sources of uncertainties in climate projections, the development of suitable adaptation strategies for design of resilient engineering structures and infrastructures, and the assessment of climate change impacts on structural safety and reliability. Topics of interest include, but are not limited to:

- climate change impact studies
- uncertainty in climate projections
- weather generation techniques
- calibration strategies for the analysis of climate model outputs
- evaluation of future climate extremes
- climatic actions on structures
- adaptation strategies for structural design
- reliability of existing structures and infrastructures under changing climate

Guest Editors

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Dr. Pietro Croce

Dr. Filippo Landi

Deadline for manuscript submissions

closed (30 September 2022)

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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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