

Special Issue

Complex System Approaches to Climate Change and Sustainable Development

Message from the Guest Editor

This Special Issue's focus is fundamental and applied research in the conceptualization, systematization, modeling, and formal analysis of the complex dynamics and decision-making underlying climate change and sustainable development policies. Contributions may range across the following research areas:

- conceptualization and systematization of climate change challenges from a holistic perspective involving dynamics of the oceans, atmosphere, geosphere, biosphere, and society;
- statistic–dynamic methods of extraction and analysis of information related to the dynamics of complex systems from empirical and computational records;
- detection of patterns of spatial and temporal climatic variability from data of the dynamics of the Earth system and attribution to underlying mechanisms;
- methods of evaluating uncertainty and predictability in complex system dynamics for model optimization and the provision of decision-making support to sustainable development policy-makers.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Climate (ISSN 2225-1154) was established in 2013 to provide an open-access outlet for innovative research, review articles, new direction papers, and short communications relevant to all disciplines related to climate at all scales. The journal encourages papers ranging from climate change detection and attribution and Earth system modeling to ecosystem, hydrologic, and socioeconomic impacts and climate mitigation and adaptation measures. The influence of *Climate* is strong and growing (IF 3.2 in 2024, CiteScore 5.7 in 2024).

Editor-in-Chief

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.8 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the second half of 2025).