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Complex System Approaches to Climate Change and Sustainable Development

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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.