# **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

Prof. Dr. Rui A. P. Perdigão Meteoceanics Institute for Complex System Science, Washington, DC 20004, USA

# Deadline for manuscript submissions

closed (15 June 2022)



# Climate

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# Message from the Editor-in-Chief

### Editor-in-Chief

Dr. Timothy G. F. Kittel Institute of Arctic and Alpine Research, University of Colorado Boulder, Boulder, CO 80309-0450, USA

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