Special Issue

Thermodynamics Applied in Science of Climate Change

Message from the Guest Editors

Variations in the Earth's climate, on all time scales from months to millennia, may be due to natural periodic and chaotic processes or external thermal events, such as modulations of the solar cycles, geothermal volcanic activity, and/or persistent anthropogenic changes in the composition of the atmosphere or in land use. Research requires a truly multidisciplinary approach: complex system physics, thermometry, spectroscopy and physical chemistry, classical, statistical, irreversible and non-steady-state thermodynamics, radiation physics, biochemical physics, etc. In this Special Issue, we propose to bring together new peer-reviewed scientifically sound research articles. We will procure articles on theory, experimental, and/or simulation (computer experiments) research in any of the above disciplines that will enable a better scientific description of fluctuations in climates on all time scales.

Guest Editors

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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Editor-in-Chief

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