Special Issue

Interdisciplinary Approaches to Hydrologic Dynamics, Analytics and Predictability

Message from the Guest Editors

Hydrology is a rich multidisciplinary field encompassing a complex process network involving interactions of diverse nature and scales. Still, it abides by the core dynamical principles regulating individual and cooperative processes and interactions, ultimately relating to the overall Earth system dynamics. This Special Issue focuses on advances in the theoretical and applied studies in hydrologic dynamics, regimes, transitions, and extremes, along with their physical understanding, predictability, and uncertainty. Moreover, it welcomes research on dynamical co-evolution, feedbacks, and synergies among hydrologic and other Earth system processes at multiple spatiotemporal scales. The Special Issue further encourages a discussion on the physical and analytical approaches to hydrologic dynamics, ranging from stochastic, computational, and system dynamic analysis, to more general frameworks addressing non-ergodic and thermodynamically unstable processes and interactions.

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Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientificallybased political decisions.
We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

Editor-in-Chief

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