Special Issue

Deep Learning of Climate Change and Extreme Events, Hydrological Processes and Land Use Dynamics Relationships

Message from the Guest Editors

The impact of climate change, particularly the rise in severe extreme events, on hydrological processes, land use patterns, and ecosystem health changes is a critical area of research for understanding and managing the future of our globe. At the same time, changes in hydrological processes and land use, such as decreasing surface flow, deforestation, and urbanization, can contribute to climate change.We welcome submissions that address topics including, but not limited to, the following:Application of deep learning techniques for predicting extreme climate events and their impact on hydrological process response and land use change.Use of deep learning to model the feedback loops between hydrological process response, land use change, and climate dynamics.Development of deep learning-based tools for assessing vulnerability and resilience of surface flow processes and land systems to climate change.Integration of remote sensing data with deep learning to monitor surface flow and land use changes under extreme climate conditions.Deep learning approaches for optimizing hydrological structures, land use planning, and climate adaptation strategies.

Guest Editors

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Land

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Message from the Editor-in-Chief

Land is the only open access journal covering all aspects of land science, and it is a pioneering platform for publishing on land system science. Our editorial board is comprised of eminent scholars. We publish high quality research on societally relevant, emerging and innovative topics and results in land system research. It is now one of the top land journals with a significant impact factor, and has a goal to become the best journal in land in the coming years. I strongly recommend Land for your best research publications for a fast dissemination of your research.

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