Special Issue

Artificial Intelligence and Machine Learning (AI/ML) in Climate Change Impacts Analysis

Message from the Guest Editor

Artificial intelligence/Machine Learning approaches are proven to have great potential in understanding many complex phenomena with a wide range of computational challenges. With the availability of a large set of observed and simulated records of hydrological. meteorological and climatological variables, AI/ML approaches have a huge potential scope in climate change impact analysis. Towards this aim, several AI/ML approaches, such as Artificial Neural Network (ANN), Support Vector Machines (SVMs), Relevance Vector Machines (RVMs), Deep Learning (DL), and Reinforcement Learning (RL), etc., have been found to yield undeniable performances and are now being widely applied by many researchers in many different parts of the globe. We welcome original research articles and reviews in the following research areas:

- Extreme events in a changing climate
- Flood and drought analyses
- Streamflow assessment
- Reservoir operation
- Future climate and hydrology
- Change in precipitation
- Case studies on climate change impact assessment
- Mitigation strategies
- Policy making
- Remote sensing applications
- Surface and ground water management under climate change

Guest Editor

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Deadline for manuscript submissions

closed (1 November 2023)



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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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