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

Dr. Rajib Maity
Department of Civil Engineering, Indian Institute of Technology Kharagpur, Kharagpur 721302, India

Deadline for manuscript submissions

closed (1 November 2023)

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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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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. *Sustainability* publishes original research articles, review 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

Prof. Dr. Marc A. Rosen
Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

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