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# Drought Monitoring and Modeling Utilizing Advanced Machine Learning Models

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**Message from the Guest Editors** 

Dear Colleagues,

Drought is usually considered a natural hazard that can be caused by a decrease in rainfall and an increase in ambient air temperature. It can cause significant changes in the water resources, agriculture, and hydrology of an area. Many drought indices have been developed and proposed for monitoring the drought status of a particular location, which can be categorized into agricultural, meteorological, and hydrological droughts. In recent years, machine learning models have attracted significant attention among scholars when monitoring and modeling the droughts.

This Special Issue aims to report recent advances in the forecasting of various drought indices, including standardized precipitation index (SPI), standardized precipitation evapotranspiration Index (SPEI), reconnaissance drought index (RDI), and Palmer's drought severity index (PDSI), etc., applying machine learning models. In this context, hybrid paradigms of machine learning models are highly recommended.

Dr. Saeid Mehdizadeh Dr. Farshad Ahmadi *Guest Editors* 







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### Message from the Editor-in-Chief

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