



water



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Wavelet Applications in Hydrology and Hydrogeology

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Message from the Guest Editor

Wavelet analyses are a very useful tool in multi resolution analysis and time frequency characterization of a time series. The main advantage of wavelet analysis is that the window size is not fixed but varies with the frequency, following the famous Heisenberg uncertainty theorem. Then, the basic objective of the wavelet transform is to achieve a complete time-scale representation of localized and transient phenomena occurring at different timescales. These techniques allow to identify and quantify nonstationary in time series but can also be considered as a valuable tool for identifying time scale variance repartition before application of other methods.

This special issue aims to give an overview of recent applications of continuous or discrete wavelet analyses in time series analyses but also in optimization, machine learning, conceptual or physical modelling or all other applications in hydrology or hydrogeology.



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Special issue



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Message from the Editor-in-Chief

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