Special Issue

The Next Generation on Water Resource Management Using Computer Aid Models

Message from the Guest Editor

Of recent developments, the applications of machine learning and their advanced versions have been noticed in the domain of water science. Their merit promotes valid and reasonable solutions for planning and management of water resources, assessment of hydro-climatic hazard risk, evaluation of agricultural potential, understanding ecological distribution, etc. It is worthwhile to highlight that the main challenges of the hydrological processes are always associated with non-linear, non-stationary, and stochastic processes, which require highly complex engineering problems to be resolved. Here, where the applications of machine learning take place, the machine learning models have been evidenced to demonstrate excellent advanced computer aid models in solving such a kind of issues related to water management. Hence, the motivation of this Special Issue to propose and investigate the feasibility of advanced technologies of machine learning for decision support in water resources management, hydrological hazard risk reduction, and environmental management.

Guest Editor

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