

Special Issue

Water Resources and Flood Management Using Artificial Intelligence and Big-Data Mining

Message from the Guest Editors

Water resources assurance and flood hazard mitigation efforts may involve forecasting of reservoir inflows, river flows, and flooding at different lead times and/or scales. Modern technologies such as, but not limited to, artificial intelligence (AI), big-data mining, multiple data aggregation/ensembles, and model ensembles offer avenues. Also, analyses of impacts, risks, uncertainty, vulnerability, resilience and scenarios coupled with policy-oriented suggestions will give insights. Moreover, the use of geological information systems for visual presentation is essential and helpful in decision-making. This Special Issue of *International Journal of Environmental Research and Public Health* aims at exploring recent advances in AI for water resources and flood management. Contributions on interdisciplinary approaches to modelling the complexity of water resources and flood hazards-related issues are welcome. Also, contributions with integrated solutions at local, regional or global scales are encouraged.

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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

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