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.

Guest Editors

Dr. Mawuli Dzakpasu

1. University College Dublin, Belfield, Dublin, Ireland;
2. School of Environmental and Municipal Engineering, Xi'an University of Architecture and Technology, Xi'an 710055, Shaanxi Province, China

Prof. Dr. Guangtao Fu

Centre for Water Systems, University of Exeter, North Park Road, Exeter EX4 4QF, UK

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

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Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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Editor-in-Chief

Prof. Dr. Paul B. Tchounwou
RCMI Center for Urban Health Disparities Research and Innovation, Richard N. Dixon Research Center, Morgan State University, Baltimore, MD 21251, USA

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