Special Issue

Spatiotemporal Data Analysis, Visualization, and Modelling in Water Resources

Message from the Guest Editors

Water resources management problems have important characteristics in their spatial and temporal dimensions at the same time. In recent years due to technological advancements new research efforts include data in water resources model representation and analysis from remote sensing and satellite sources. The study of water resources associated problems require advanced spatiotemporal methods for their analysis and prediction including estimating probability of their occurrence and the associated risk. Key issues are management and mitigation of extreme hydrological phenomena (e.g precipitation, runoff), floods, low flows, droughts and groundwater as well as modelling the fate of pollution sources both in onshore and offshore environment. The spatiotemporal study of key topics aids the understanding of the relationship between their magnitude and the probability of these events occurring. This special issue aims to provide spatiotemporal methods to study and mitigate major problems associated to water resources based on Space-time Geostatistics, Machine learning, Statistical theory, Hydrological modelling, Risk assessment e.t.c.

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Deadline for manuscript submissions

closed (10 October 2020)

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/si/31723

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The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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