



Spatiotemporal Data Analysis, Visualization, and Modelling in Water Resources

Guest Editors:

Dr. Emmanouil Varouchakis

School of Mineral Resources
Engineering, Technical University
of Crete, 73100 Crete, Greece

Dr. Gerald Corzo

Department of Hydroinformatics
and Socio-Technical Innovation,
IHE Delft, Institute for Water
Education, 2611 AX Delft, The
Netherlands

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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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Prof. Dr. Tony Clare

School of Natural and
Environmental Sciences,
Newcastle University, Newcastle
upon Tyne NE1 7RU, UK

Message from the Editor-in-Chief

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*Journal of Marine Science and
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MDPI, St. Alban-Anlage 66
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