Special Issue

RS, GIS and Machine Learning Applied in Marine Science

Message from the Guest Editor

Remote sensing provides information about objects on earth by recording radiated or reflected radiation from objects. It can monitor the composition and nature of the earth's surface from local to global scales. On the other hand, GIS is a software tool used to store, analyze, process, manipulate, and update information in layers where geographic location is an important characteristic or critical to the analysis.

Machine learning (ML), which is an application of AI, is a brand new area of study in the coastal sciences that provides effective and practical ways for simulating coastal morphodynamics. With the quantity, resolution, and availability of remote-sensing data, complex coastal issues can be solved effectively by ML. Additionally, GIS's ability to manage and analyze spatial data provides essential tools for marine science. This Special Issue intends to demonstrate how coastal dynamics can be used in combination with remote-sensing data, Geographic Information Systems, and machine learning to provide an attractive solution for coastal management problems.

Guest Editor

Dr. Ugur Avdan

Research Institute of Earth and Space Sciences, Eskisehir Technical University, Iki Eylul Campus, 26470 Eskisehir, Turkey

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

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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