



water

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Pattern Analysis, Recognition and Classification of Marine Data

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Deadline for manuscript
submissions:

closed (31 October 2021)

Message from the Guest Editor

The increasing interest of the marine science community in data science and artificial intelligence deals mainly with the expansion of the scope and scale of ocean observations. Similarly, the ubiquitous increment of automated sampling approaches based on smart sensors leads to the continuous flood of heterogeneous data. The huge amount of data produced by the ocean observing systems is fostered by the complexity of the aquatic environment, from which heterogeneous and environmental measurements are needed to explain the physical, biological, and chemical characteristics of the ocean and the functioning of the marine ecosystems.

Approaches for pattern analysis, recognition, and classification of marine data are urgently needed to extract knowledge from the acquired measurements, to define and develop intelligent services capable of managing the forthcoming new generation of intelligent observatories and vehicles and define and develop novel integrated models for understanding and predicting the ocean health status[...]

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