New Ways to Monitor and Analyse Biodiversity in the Marine Environment

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Deadline for manuscript submissions:
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Message from the Guest Editors

Programs to monitor biodiversity directly are widespread in the marine environment, as are factors which may influence results. With the advent of new technological, statistical and computing techniques, the ways in which monitoring is achieved and the range of parameters that are being monitored have expanded. We welcome inputs on the following but will consider any new innovative techniques or analyses:

- Design of monitoring surveys from a statistical perspective;
- Integration of different sources of data to achieve successful monitoring programs;
- Incorporating statistical dependency into the analysis of monitoring data;
- Monitoring studies that measure aspects of sediment, biogeochemical and faunal parameters;
- Monitoring based on visual imagery such as video surveys or camera traps;
- Monitoring based around anthropogenic activities such as pollution, aggregate extraction and litter which may reduce biodiversity;
- Using machine learning to infer aspects of biodiversity;
- Automation in terms of data collection and/or analysis;
- Use of 'big data' for addressing environmental issues, with a focus on biodiversity monitoring;
- Monitoring using eDNA

Special Issue

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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