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Application of Machine Learning in Marine Ecology

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Deadline for manuscript submissions:

closed (20 December 2022)

Message from the Guest Editors

Dear Colleagues,

Machine learning is a field of computational science which first emerged in the 1950s. However, our ability to effectively harness the power of machine learning techniques was only truly realised in the 1990s. In ecology, the earliest adoption of machine learning came about in the early 2000s, when regression tree algorithms were applied to spatial data to predict species distributions. Since that time, machine learning algorithms have been adapted and applied in various studies in the marine environment, from population models, image recognition, and experimental studies.

The purpose of this Special Issue is to highlight the use of machine learning algorithms for studying marine ecosystems. Studies focusing on any marine species, including those in the coastal environment, are welcome. Articles may address, but are not limited to, the following topics:

- Species distribution modelling;
- Marine protected area planning;
- Machine learning for experimental research;
- Image recognition for marine conservation;
- Audio recognition;
- Machine learning tools and tag development;
- Sustainability planning using machine learning.



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Message from the Editor-in-Chief

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