



Passive Acoustics to Study Marine and Freshwater Ecosystems

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Message from the Guest Editor

Passive acoustic monitoring is becoming an important tool to study the ecosystem thanks to technologies improvements, to high temporal resolution, relatively low cost and time effort, and zero impact on environment and animal behavior.

Analysis of long acoustic data series is a challenge and each ecosystem has its own soundscape signature changing with time, for example following the day-night cycle or alternation of seasons, and along the multidimensional space (vertically, horizontally). Some dominant physical and biological components of the soundscape are known but we need to better understand the acoustic ecosystem, collecting more data and improving the automatic analysis, also applying data analysis techniques already used in other field over bioacoustics.





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Message from the Editor-in-Chief

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