Special Issue

Applications of Hydroacoustic Technology to Marine Ecology and Fisheries

Message from the Guest Editors

Hydroacoustic methods have broad applications, including the use of sound waves to map underwater environments, detect aquatic organisms, and monitor physical and biological parameters. These applications include fisheries population assessments, fish passage monitoring, habitat mapping, water quality monitoring, aquaculture management, marine and freshwater ecosystem restoration, soundscape and acoustic ecology, and more. Hydroacoustic technology assists scientists in evaluating species distributions, monitoring habitat conditions, and tracking ecological changes. This initiative aligns with the principles of sustainable fisheries management, conservation efforts, and aquatic ecosystem restoration. Advancements in sonar technology, passive acoustic monitoring, acoustic telemetry, machine learning, and data analytics, as well as hydroacoustic methods, will continue to evolve hydroacoustic methods, offering deeper insights into the complex dynamics of aquatic environments. This Special Issue aims to collect studies that focus on various applications of hydroacoustic technology, both active and passive ones, to aquatic ecology.

Guest Editors

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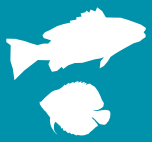

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About the Journal

Message from the Editor-in-Chief

Fishes is a multidisciplinary open access journal focusing on reports of original research and critical reviews and synthesis from the broad area of fishes and aquatic animals. The ultimate objective of *Fishes* is to facilitate the discovery of connections between research areas, advancing science and filling knowledge gaps, and providing solutions for all present and future issues encountered in the sector of fisheries and aquaculture. As Editor-in-Chief, I encourage you to consider *Fishes* for your scientific papers and would be pleased to welcome you as one of our authors.

Editor-in-Chief

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