

Special Issue

Applications of Acoustics in Marine Fisheries

Message from the Guest Editor

Acoustics has been and is thoroughly used to detect and characterize underwater targets, and its particular application to fisheries constitutes an entire technical and scientific discipline. Active acoustic techniques are widely used by fishermen to locate and characterize fish schools. The aim of its use is shifting progressively from the pure interest in achieving successful catches to the assurance of the sustainability of a particular fishery, both from ecosystemic and economical viewpoints. Improving species and size discrimination preserves populations but also reduces fishing efforts and carbon footprints. The technological capabilities of active acoustics have evolved from the improvement in distance range and spatial coverage to multi-frequency and broadband operation, cloud computing, and artificial intelligence tools. New applications include distributed networks of both active and passive acoustic sensors, as well as surface and underwater unmanned platforms and vehicles. We welcome submissions of original field as well as laboratory research. The manuscripts can give directions for future research or suggestions on how to apply acoustics to better manage fisheries.

Guest Editor

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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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