

Special Issue

Technology and Innovation in Fisheries Management

Message from the Guest Editor

Modern fisheries management focuses on monitoring, assessing, and regulating aquatic resources to strike a balance between harvest demands and ecosystem conservation. The acquisition of marine environmental parameters, the spatiotemporal distribution of fish stocks, and the operational dynamics of fishing vessels rely primarily on integrated sensing mechanisms, including satellite remote sensing, acoustic telemetry, IoT sensors, and electronic monitoring systems. Aggregated multidimensional data is deeply analyzed using artificial intelligence, population dynamics models, and big data analytics to precisely predict resource fluctuation trends, thereby providing a theoretical foundation for scientific quota setting and management strategy formulation. At the operational level, the application of selective fishing gear, smart fish aggregating devices (FADs), and automated harvesting equipment aims to optimize operational practices; this enhances production efficiency while minimizing negative impacts on non-target species and benthic habitats.

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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