Special Issue

Fisheries Stock Assessment and Modeling

Message from the Guest Editors

Fisheries stock assessment and modeling involves research of an interdisciplinary nature, fostering a holistic understanding of math, statistics, fish stocks, biology, ecology, and socio-economic dimensions. This article collection aims to showcase cutting-edge research and methodologies dedicated to understanding and managing fish populations. By integrating advanced modeling techniques with fisheries and survey data, the contributors explore the intricate interplay between environmental factors, fishing pressure, and biological processes that shape fish stocks. From population dynamics, spatial distribution, spatial–temporal dynamics, and state-space models to Bayesian hierarchical modeling and nonstationary models, we welcome articles offering valuable insights that will be crucial to bettering fish stock assessments and sustainable fisheries management. Additionally, this Special Issue welcomes studies addressing the pressing challenges of climate change and data limitations, highlighting the need for modeling and adaptive strategy evaluation in the face of shifting oceanic conditions and/or situations of limited information.

Guest Editors

Prof. Dr. Yan Jiao

Dr. Jie Cao

Dr. Rujia Bi

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Deadline for manuscript submissions

closed (11 November 2024)

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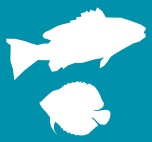

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About the Journal

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

Prof. Dr. Maria Angeles Esteban
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