Special Issue

Fishway Design and Development: New Challenges, Tools and Applications

Message from the Guest Editors

Fishways are one of the main solutions to mitigate the impacts of anthropogenic barriers, as they allow fish to move up and downstream while maintaining the weirs and dams' basic functions. If adequately designed, fishways can provide a bidirectional migration facility and enhance ecosystem services. Over recent years much effort has been devoted to fishway research, nonetheless, several challenges remain unsolved while new ones emerge.

Moreover, with climate change, droughts and floods of exceptional severity are increasingly likely to occur, thus, water resources will become progressively strained, reinforcing the importance of designing adaptable and cost-effective fishways, efficient for a range of discharges.

This Special Issue highly encourages contributions on fundamental and applied research combining different fish passage research fields, like engineering, ecohydraulics, fluid dynamics, biology, ecology and physiology ranging from hydrodynamic modelling and laboratory experiments to field studies.

Guest Editors

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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