Special Issue

Hydrodynamic–Habitat Models as Tools for Biodiversity Conservation, Freshwater Resources and Ecosystem Management

Message from the Guest Editors

Dear colleagues, To effectively manage and conserve aquatic ecosystems, we need to assess the available quantity and quality of in-stream habitats for plants or animals of interest, such as fish or benthic macroinvertebrates, for various management strategies and design options; such assessments are typically performed via the use of hydrodynamic-habitat models (HHMs). HHMs combine calculations of a river's hydrodynamic characteristics, mainly water depths and flow velocities, using 1D, 2D or 3D hydrodynamic models (other variables, such as water temperature and the type of substrate that can be used are also calculated via heat transfer and sediment transport models, respectively) with habitat models that are empirical habitat suitability models or process-based population or bioenergetic models... This Special Issue aims to assess current progress and practices in the development and applications of HHMs... For further reading, please visit the ***Special Issue website***.

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2021)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/58322

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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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