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Environmental Flows Determination and Monitoring with Hydraulic Habitat Models

Guest Editor:

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Deadline for manuscript submissions:
closed (31 January 2019)

Message from the Guest Editor

Hydraulic habitat simulation models were designed for the purpose of quantitative determination of environmental flows that consider the needs of aquatic fauna in rivers and streams. Nowadays, the tools are expected to be applicable across a range of spatial and temporal scales and protect entire aquatic communities, while being inexpensive as well as easy to use in administrative and legal environments. Addressing these challenges is the focus of this volume. We invite papers that present most recent developments in habitat modelling, supported by real life case studies. Particularly, we are looking for papers describing: 1) applications for hydropower development, water withdrawals, other industrial and municipal uses; 2) applications at regional as well as at site-specific scales; 3) cross-scale applications; 4) taking spatial, temporal, and biological variability into account; 5) addressing boundary conditions (e.g., water chemistry, food availability, climate change predictions, multimodels); 6) incorporating geomorphological variability and dynamics; 7) remote sensing; and 8) monitoring schemes.

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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.

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