Special Issue

Environmental Hydraulic Engineering

Message from the Guest Editor

For the installation of hydraulic structures, migration routes, refuge regions, habitats, and spawning beds for aquatic animals, a balance must be struck between flood control and aquatic habitats. However, there are significant problems in most rivers. After flood stages, facilities of fish passages can be lost (e.g., sediments of rocks and drift wood, the destruction of fish passages, local scouring and degradation of river beds below the fish passage), and it is impossible for aquatic animals to migrate upstream and downstream around a hydraulic structure. Additionally, degradation of river beds might be advanced in channelized rivers, and bedrock without movable gravel might be formed. These problems are significant. From the view point of hydraulic design, the improvement method must be established. In my study, several types of fish passages have been proposed by considering the balance between flood control and aquatic habitats. [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/Environmental_Hydraulic_Engineering

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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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