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## Environmental Hydraulic Engineering

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Deadline for manuscript  
submissions:

**closed (30 April 2021)**

### 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. [...]

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## Message from the Editor-in-Chief

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