



Methods and Practices for the Sustainable Management of Lake and River Hydrological Systems

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Message from the Guest Editors

Hydrological systems and freshwater habitats have been under pressure for decades by anthropogenic influences and the subsequent effects of urbanization, intensive agriculture and energy production. Furthermore, climate change exerts additional pressure on freshwater resources and their ecosystems, endangering their sustainability. Lakes and rivers are particularly vulnerable and the sustainable management of their hydrological regimes and ecosystems is crucial.

We particularly invite innovation methods and practices in case studies of lakes and rivers associated with modelling, monitoring and field investigations. Research areas may include (but are not limited to) the following:

- Hydrological analysis and modelling;
- Climate change adaptation and mitigation;
- Ecological lake levels and river flow assessments;
- Habitat analysis methods and species–environment models;
- Ecological requirements analysis of biological species to support sustainability;
- Monitoring of hydrological and biological parameters;
- Combination of hydrological, ecological, economic and social factors for freshwater resources management.





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