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Advances in Sustainable River Management: Reconciling Conflicting Interests under Climate Extremes

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Message from the Guest Editors

Ever-increasing water exploitation mainly for water supply, irrigation and renewable energy have intensively degraded freshwater ecosystems, notably rivers. Further, the climate extremes and water scarcity enhanced by climate change induce additional stress in the freshwater ecosystems and may stimulate conflicts among water users. Therefore, assurance of optimal living conditions for aquatic organisms is one of the most important principles related to sustainable water management. On the other side, human activities often alter not only the natural hydrologic regime but also habitat conditions for the aquatic ecosystem by substantially affecting several essential life-stages of aquatic organisms.

Also, we are aware that water is needed for several vital humans' activities, where agricultural and industrial seems to be the primary water consumer. In a situation where on the World are observed more frequent drought and water scarcity, water systems management requires the most advanced approaches and tools for rigorously addressing all the dimensions involved in the sustainability of its development.

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