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Special Issue Reprint

Hydro-Economic Models for Sustainable Water Resources Management

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This Reprint brings together a collection of recent studies that illustrate how hydro-economic models have become essential tools for managing water resources under growing environmental, economic, and institutional pressures. By integrating hydrology, economics, ecosystem services, governance, and social behavior, the contributions offer a systemic perspective on water as a complex and interdependent resource. The Reprint covers diverse geographical contexts and water-related challenges, including scarcity, low-flow events, desalination, water quality, agricultural water rights, and household conservation behavior. Collectively, the studies demonstrate how quantitative modeling and interdisciplinary approaches can support informed decision-making, improve resource allocation, and enhance resilience in water-dependent systems. This Reprint is intended for researchers, policymakers, and practitioners interested in sustainable water management, hydro-economic analysis, and the design of adaptive governance frameworks in a context of increasing uncertainty.

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