Special Issue

Soft Computing for Water and Aquatic Resource Management

Message from the Guest Editors

An integrated water resource management requires the establishment of coordinated governance guidelines that guarantee the compatibility of different consumptive and non-consumptive water uses, the sustainability of aquatic ecosystems, and economic and social welfare. This holistic approach implies basins management strategies that must include and implement a broad knowledge of ecosystem components involving climatology, geomorphology, hydrological and hydraulic engineering, water quantity and quality, and aquatic vegetation and fauna. To achieve this objective, the consideration of emerging technologies that allow spatial and temporal integration of a high quantity of data of different nature to achieve effective and dynamic solutions according to environmental conditions is essential. In this context, soft computing techniques, which allows models and control complex systems characterized by high levels of uncertainty, can support and encourage adaptative strategies for water and/or aquatic resource management.

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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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