



water



an Open Access Journal by MDPI

Multi-Criteria Decision Making for Water Environment Management: Innovative Models and Applications

Guest Editors:

Dr. Ahmed A. Abd El-Latif

Department of Mathematics and Computer Science, Faculty of Science, Menoufia University, Shebin El-Koom 6131567, Egypt

Dr. Edmond Shu-lim Ho

Department of Computer and Information Sciences, Northumbria University, Newcastle upon Tyne, UK

Dr. Jialiang Peng

School of Data Science and Technology, Heilongjiang University, Harbin, China

Deadline for manuscript submissions:

closed (15 January 2023)

Message from the Guest Editors

In recent years, scarcity of food and water resources have been quite dominant in certain economies. Also, in the upcoming years with the advent of many industries and production lines, the need to manage water resources optimally and effectively lies not just in the hands of policymakers and the government. It also is a responsibility of technology and participation at all levels. A collaboration of technological solutions, regulations, and policies must be driven towards a multi-criteria decision-making framework related to managing the water shortage risks, demand projection, optimization of distribution networks etc. Multi-criteria decision making (MCDM) has been used for optimizing land allocation, water use allocation, energy production, and environmental protection models over the years. Also, this type of analysis includes both the quantitative and the qualitative aspects into consideration. The major category of MCDM mathematical modelling is multi-attribute decision making (MADM) and multiple-objective decision making (MODM).



mdpi.com/si/126554

Special issue



water



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

Message from the Editor-in-Chief

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and Technology)

Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/X@Water_MDPI)