



Soft Computing Application for Sustainable Water Resource and Environmental Management

Guest Editors:

Dr. Chow Ming Fai

Discipline of Civil Engineering,
School of Engineering, Monash
University Malaysia, Jalan
Lagoon Selatan, Bandar Sunway
47500, Selangor, Malaysia

Prof. Dr. Ahmed El-Shafie

Department of Civil Engineering,
Faculty of Engineering, University
of Malaya, Kuala Lumpur 50603,
Malaysia

**Dr. Al Mahfoodh Ali Najah
Ahmed**

Department of Civil Engineering,
College of Engineering, Universiti
Tenaga Nasional (UNITEN),
Selangor 43000, Malaysia

Deadline for manuscript
submissions:

closed (31 March 2022)



mdpi.com/si/87033

Message from the Guest Editors

Application of soft computing techniques to solve complex problems in hydrology and water resources fields have gained increasing attention due to their robustness and inherent tolerance of uncertainty compared to the traditional methods. Soft computing allows spatial and temporal integration of various data of different nature in order to acquire better empirical insights into complex multiparameter problems and, hence, encourage adaptive strategies for holistic water management. Some of the soft computing techniques, such as fuzzy logic, expert systems, artificial neural networks, fuzzy neural networks, and genetic algorithms, have been widely employed either as single or hybrid systems in solving various real-life water and environmental problems. Thus, the aim of this Special Issue is to show recent and novel applications of soft computing techniques in the field of water engineering, especially in various hydrological processes (e.g., rainfall, runoff, etc.) and water quality forecasting. All original research and review contributions within the scope of

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

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

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

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)