Special Issue

The Application of AI, Big Data and Remote Sensors in Sustainable Agricultural Irrigation

Message from the Guest Editors

Irrigated agriculture will face important challenges in the coming decades. The evolution of the irrigation systems into pressurized ones makes energy another key resource for the irrigation sector that represents a growing percentage of the total water costs and increases the carbon footprint of the irrigation activity. Additionally, the new water distribution systems for irrigation have been organized according to demand (water is continuously available to farmers) adding an extra degree of uncertainty to their management.

In this situation, irrigation is becoming an activity of precision in which the Artificial Intelligence (AI) techniques and Big Data analysis, both at the scale of the water distribution network and the farm, as well as other aspects realted to new management strategies such as remote sensors, unmanned aerial vehicles (UAV) and new technologies, are generally becoming more relevant every day.

This Special Issue aims to provide a forum for discussion where researchers are invited to submit their novel approaches in modeling and management techniques based on AI, BigData and remote sensors for irrigation systems.

Guest Editors

Dr. Rafael González Perea

Prof. Dr. Juan Antonio Rodríguez Díaz

Prof. Dr. Miguel A. Moreno

Deadline for manuscript submissions

closed (31 December 2021)



Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/71023

Sustainability Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 sustainability@mdpi.com

mdpi.com/journal/ sustainability





Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



About the Journal

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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University, Columbus, OH 43210, USA

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, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

