Special Issue

Complex System Dynamics and Intelligent Control for Sustainable Engineering

Message from the Guest Editors

Complex systems have distinct properties, like highly nonlinear dynamics, etc. These properties make it difficult to understand the behaviors of complex systems, model them accurately, control them precisely, and make them work sustainably. This necessitates adopting novel and environmentally friendly technologies to design or operate systems that use energy and resources sustainably. Artificial intelligence techniques, such as neural networks, evolutionary computation, and machine learning, have proven to have the potential to offer practical solutions for promoting sustainable engineering. Research areas may include (but are not limited to) the following:

- Dynamics analysis and modeling of complex systems;
- Composite learning control of complex dynamical systems;
- Al-based control method of complex systems;
- Intelligent control of multi-agent control systems;
- Intelligent sustainable production system modeling, simulation, and optimization;
- Stability and robustness analysis of intelligent control systems;
- Modeling and intelligent control for complex systems of renewable energy systems, smart grids, wastewater treatment systems and autonomous systems.

Guest Editors

Dr. Jin Tao

Dr. Hao Sun

Prof. Dr. Mingwei Sun

Prof. Dr. Qinglin Sun

Deadline for manuscript submissions

closed (24 January 2024)



Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/138968

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)

