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;
- AI-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

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

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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.

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

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