

Special Issue

AI-Driven Advanced Process Control for Smart Energy Systems

Message from the Guest Editors

This Special Issue focuses on novel theories, methods, and applications of intelligent algorithms for advanced process control, bridging computational innovation with practical deployment in industrial, power, and sustainable transportation systems. Topics of interest include, but are not limited to, the following:

- Intelligent optimization methods for process control;
- Model-free, data-driven, and predictive control strategies;
- Control of nonlinear and large-scale industrial, power, and HVDC systems;
- Optimal power flow modeling, analysis, and control in modern grids;
- Controller monitoring, performance assessment, and fault-tolerant control;
- System identification, modeling, and real-time decision-making;
- Sustainability and energy-efficient control solutions;
- Intelligent coordination of renewable integration and electric vehicle networks;
- Fault detection, diagnosis, and adaptive control;
- Applications in chemical, energy, manufacturing, and environmental processes.

Guest Editors

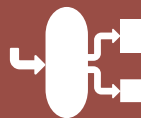
Dr. Jingbo Wang

Prof. Dr. Bo Yang

Dr. Yiyang Sang

Deadline for manuscript submissions

30 March 2026



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



mdpi.com/si/251054

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

[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)





Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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, Inspec, AGRIS, and other databases.

Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))