



Application of Artificial Intelligence and Data Mining in Energy System

Guest Editors:

Prof. Dr. Sérgio Ramos

Engineering Institute, Polytechnic of Porto, 4200-072 Porto, Portugal

Prof. Dr. João Soares

GECAD—Research Group on Intelligent Engineering and Computing for Advanced Innovation and Development, LASI—Intelligent Systems Associate Laboratory, Polytechnic of Porto, 4200-072 Porto, Portugal

Deadline for manuscript submissions:

closed (15 July 2023)

Message from the Guest Editors

This Special Issue focuses on the application of artificial intelligence and data mining in power system. Topics of interest for publication include but are not limited to the following:

- Data mining techniques applied to power systems (e.g., Typical load profile characterization, customers classification, identification of electricity failures)
- Artificial intelligence applied to energy systems (e.g., use of methods such as knowledge-based (expert) systems, fuzzy logic, neural networks and genetic algorithms)
- Renewable energy, demand-response, smart distribution grids
- Energy management system in smart distribution grids and in residential buildings
- Advanced flexibility strategies for electricity communities
- Shared PV generation in residential building context
- Electric vehicles planning and operation in smart grid (including behavior models for simulation and optimization of EVs in the grid)





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

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

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.

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: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/processes
processes@mdpi.com
[X@Processes_MDPI](https://twitter.com/Processes_MDPI)