

Industrial IoT-Enabled Modeling and Optimization for the Process Industry

Guest Editors:

Dr. Gongzhuang Peng

Engineering Research Institute,
University of Science and
Technology Beijing, Beijing
100083, China

Dr. Shenglong Jiang

School of Materials Science and
Engineering, Chongqing
University, Chongqing 400044,
China

Deadline for manuscript
submissions:

30 June 2024

Message from the Guest Editors

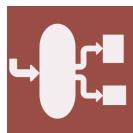
Dear Colleagues,

The process industry is the pillar of national economies. Given severe resource and market pressure, there is an urgent need to improve the efficiency and decarbonization through smart manufacturing strategies. Industrial IoT creates the core of smart manufacturing by integrating advanced sensing, communication, and data mining technologies. Industrial IoT has greatly facilitated the modeling and optimization of manufacturing processes, but it also brings challenges, e.g., how to integrate mechanism knowledge with industrial big data in the modeling of industrial process and how to deal with multiple and coupled objectives in the optimization of the production process.

This Special Issue aims to summarize new theories and their applications in Industrial IoT-based modeling and optimization for complex industrial processes, especially in industry applications.

- Industrial IoT-enabled process modeling;
- Process monitoring and fault diagnosis;
- Industrial process optimization;
- Production and logistics optimization;
- Smart manufacturing;
- Machine learning applications in the process industry.





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

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

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, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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