



Management and Simulation of Digitalized Smart Manufacturing Systems

Guest Editors:

Dr. Mohammed M. Mabkhout

Intelligent Automation Centre,
The Wolfson School of
Mechanical, Electrical and
Manufacturing Engineering,
Loughborough University,
Loughborough LE11 3TU, UK

Dr. Pedro Ferreira

Intelligent Automation Centre,
Wolfson School of Mechanical,
Electrical, and Manufacturing
Engineering, Loughborough
University, Loughborough LE11
3TU, UK

Dr. Dorota Stadnicka

Faculty of Mechanical
Engineering and Aeronautics,
Rzeszów University of
Technology, 35-959 Rzeszów,
Poland

Deadline for manuscript
submissions:

30 November 2024



mdpi.com/si/202662

Message from the Guest Editors

Dear Colleagues,

This Special Issue invites submissions that lay the groundwork for the next generation of digitized and human-centric smart manufacturing systems. The aim is to showcase research that contributes significantly to both the theoretical and practical aspects, bringing forth discussions that could influence both the academic sphere and the industrial sector.

We welcome submissions on a broad range of topics, including, but not limited to, the following:

- Management frameworks and model innovations for smart manufacturing systems.
- Advanced integration of IoT, AI, ML, and Reinforcement Learning within manufacturing, emphasizing sustainability and human-centricity.
- Enhanced Circular Manufacturing: Leveraging Intelligent Reuse, Repurposing, and Remanufacturing Strategies.
- Supply chain and logistics enhancement strategies within smart manufacturing.

For detailed information, please visit:
mdpi.com/journal/systems/special_issues/1NCKKH0K0

Dr. Mohammed M. Mabkhout

Dr. Pedro Ferreira

Dr. Dorota Stadnicka

Guest Editors

Special Issue



systems



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. William T. Scherer

Chair, Department of Systems
and Information Engineering,
University of Virginia,
Charlottesville, VA 22904, USA

Message from the Editor-in-Chief

Systems is a leading venue for the quick and global dissemination of results of cutting-edge research in various areas of systems science and systems-related fields. An increasing number of researchers are realizing the enormous potential of systems thinking in managing the many unprecedented and complex issues in all areas of need. The *Systems* journal provides a home of exceptional quality for the manuscripts of these researchers who often find it difficult to publish their work in conventional discipline focused journals.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SSCI (Web of Science), dblp, and other databases.

Journal Rank: JCR - Q2 (*Social Sciences, Interdisciplinary*) / CiteScore - Q2 (*Modeling and Simulation*)

Contact Us

Systems Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/systems
systems@mdpi.com
[X@Systems_MDPI](https://twitter.com/X@Systems_MDPI)