

Special Issue

Advances in the Modeling and Analytics of Health and Healthcare Systems

Message from the Guest Editor

This Special Issue welcomes contributions that employ sophisticated modeling frameworks, data-driven analytics, and interdisciplinary approaches to address challenges in healthcare delivery, resource optimization, patient outcomes, and public health. For instance, we encourage studies showcasing the efficacy of predictive modeling in identifying high-risk patient populations for targeted interventions, thereby fostering improved care coordination and reduced healthcare costs. Moreover, we welcome contributions spotlighting machine learning applications that exhibit promise in analyzing large-scale healthcare datasets to unveil hidden patterns and correlations, paving the way for more personalized treatment strategies and enhanced patient outcomes. Topics of interest include, but are not limited to, predictive modeling, machine learning applications, simulation studies, and network analyses, providing a comprehensive exploration of the tools and methodologies shaping the future of health system research. For detailed information, please visit: mdpi.com/journal/systems/special_issues/SKCW197U8

2

Guest Editor

Dr. Mahmoud Elbattah

1. Faculty of Environment and Technology, University of the West of England, Bristol BS16 1QY, UK
2. Laboratoire Modélisation, Information, Systèmes (MIS), University of Picardie Jules Verne, 80080 Amiens, France

Deadline for manuscript submissions

31 May 2025



Systems

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 2.8



mdpi.com/si/200138

Systems
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
systems@mdpi.com

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





Systems

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 2.8



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



About the Journal

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.

Editor-in-Chief

Prof. Dr. William T. Scherer

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

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 - Q1 (Social Sciences, Interdisciplinary) / CiteScore - Q2 (Modeling and Simulation)