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Advances in the Modeling and Analytics of Health and Healthcare Systems

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

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Message from the Guest Editor

Dear Colleagues,

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.

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Dr. Mahmoud Elbattah
Guest Editor



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

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