

Special Issue

Systems Modeling and AI-Driven Decision-Making in Education Systems

Message from the Guest Editors

This Special Issue focuses mainly on innovative methodologies as well as architectural and technological systemic approaches for the modeling, optimization, and design of education systems, including recent advances and AI-based developments.

Thus, it directly aligns with the scope of *Systems* by addressing intelligent education systems as complex, integrated systems. The proposed topics of interest for the Special Issue include systems engineering, modeling, and optimization to support design, personalization, and decision-making in complex and adaptive educational environments. The Special Issue aims to bridge the gap between theoretical foundations and practical implementations by exploring system-level perspectives that enhance efficiency, adaptability, personalization, and sustainability in education. Particular emphasis will be given to applications of innovative intelligent technologies and systemic approaches that enhance contemporary education, such as learning analytics, knowledge-based systems, artificial intelligence, large language models, and hybrid neuro-symbolic AI architectures, that support learner-centered design, personalization, and data-driven decision-making.

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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.

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