Special Issue

AI-Empowered Modeling and Simulation for Complex Systems

Message from the Guest Editors

This Special Issue provides a timely platform for the readers of Systems to showcase their latest advancements in AI-based modeling and simulation techniques for complex systems and their applications. It aims to bring together diverse perspectives, innovative methodologies, and practical applications, fostering collaborations and knowledge exchange among the community.

We welcome submissions from a wide range of domains, including but not limited to the topics in the following part:
- Large language models in simulation;
- AI-driven system modeling;
- Complex system dynamics simulation;
- Deep learning in modeling and simulation;
- Reinforcement learning for system control;
- Predictive modeling with AI;
- Real-time simulation with AI
- AI for multi-scale modeling;
- Data-driven modeling techniques;
- AI in risk assessment and prediction;
- Agent-based modeling with AI;
- AI for complex network modeling etc.

Guest Editors

Dr. Hang Xiong

Dr. Quan Bai

Prof. Dr. Peng Lv

Dr. Zhou He

Deadline for manuscript submissions

closed (30 June 2025)

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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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