



Special Issue on AI-Driven Software and Systems Modeling

Call for Papers

AI-Driven Software and Systems Modeling is an interdisciplinary research field that integrates artificial intelligence, software engineering and systems modeling to improve the design, development, analysis and optimization of complex software systems. It explores AI-assisted modeling, automated software engineering, intelligent system architectures, digital twins, simulation and predictive analytics. The field aims to enhance software quality, adaptability, efficiency and reliability while supporting the development of intelligent, autonomous and data-driven systems for diverse applications.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on **AI-Driven Software and Systems Modeling**. Potential topics include, but are not limited to:

- AI-Assisted Software Engineering
- Model-Driven Software Engineering
- Intelligent Software Architecture and Design
- Digital Twins and Cyber-Physical System Modeling
- AI-Based Software Testing and Verification
- Machine Learning for Software Analytics
- AI-Enhanced Requirements Engineering and Formal Specification Extraction
- Intelligent Systems Simulation and Computational Modeling
- Autonomous Software Systems and Self-Adaptive Computing
- Cloud Computing, Edge Computing and AI System Modeling
- AI-Powered Security and Threat Modeling
- Data-Driven Predictive Performance and Quality-of-Service Modeling
- Explainable AI and Trustworthy Software Systems

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).

Please kindly notice that the “**Special Issue**” under your manuscript title is supposed to be specified and the research field “**Special Issue – AI-Driven Software and Systems Modeling**” should be chosen during your submission.

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