Special Issue

Intelligent Software Engineering: Synergy Between Al and Software Engineering

Message from the Guest Editors

This Special Issue will provide a comprehensive forum for disseminating the most recent theoretical, methodological, and practical advances in ISE. It will enhance the connection of researchers in the fields of Al and software engineering, promoting interdisciplinary collaboration and cross-domain innovation.

By consolidating emerging studies on Al-assisted software repair, code synthesis, intelligent testing, and autonomous software evolution, this Special Issue will contribute to the development of next-generation software systems that are more adaptive, robust, and trustworthy.

Topics of interest include, but are not limited to, the following

- Intelligent software repair and self-healing mechanisms:
- LLM-based software development and debugging;
- Al-assisted software testing and test case generation;
- Intelligent requirements analysis and specification mining;
- Reinforcement learning for adaptive software optimization;
- Software defect prediction using deep learning models;
- Explainable Al for software engineering decision support;
- Human-Al collaboration in software design and maintenance;
- Knowledge graph-based software reasoning and dependency analysis.

Guest Editors

Prof. Dr. Yunwei Dong

Prof. Dr. Guaniun Liu

Dr. Xiaomin Wei



Future Internet

an Open Access Journal by MDPI

Impact Factor 3.6 CiteScore 8.3



mdpi.com/si/260203

Future Internet Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 futureinternet@mdpi.com

mdpi.com/journal/ futureinternet





Future Internet

an Open Access Journal by MDPI

Impact Factor 3.6 CiteScore 8.3



About the Journal

Message from the Editor-in-Chief

Future Internet is a fast-growing journal devoted to rapid publications of the latest results in the general areas of computer networking/communications and information systems, with a focus on the Internet of Things, big data and augmented intelligence, smart systems (in terms of technologies, architectures, and applications), network virtualization, edge/fog computing, and cybersecurity. Both theoretical and experimental papers are welcome. Every year, Future Internet also features Special Issues dedicated to specific topics within the journal's scope.

Editor-in-Chief

Prof. Dr. Gianluigi Ferrari

Department of Engineering and Architecture, University of Parma, Parco Area delle Scienze, 181/A, 43124 Parma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), Ei Compendex, dblp, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Computer Science, Information Systems) / CiteScore - Q1 (Computer Networks and Communications)

