

Special Issue

Artificial Intelligence and Machine Learning Applications: Progress, Trends and Directions

Message from the Guest Editors

By gathering cutting-edge research and critical insights, this Special Issue seeks to highlight both the opportunities and challenges of Artificial Intelligence/Machine Learning applications, while identifying promising future directions. The Special Issue welcomes, but is not limited to, the following themes:

- Novel AI and ML algorithms, frameworks, and architectures;
- Deep learning, reinforcement learning, and hybrid approaches;
- Explainable, interpretable, and trustworthy AI methods;
- Fairness, accountability, and ethics in AI/ML applications;
- AI/ML for Internet of Things (IoT), edge, and cloud environments;
- Intelligent systems for smart cities, healthcare, transportation, and education;
- AI-driven cybersecurity, privacy protection, and threat detection;
- Natural language processing and human-computer interaction;
- Computer vision and multimodal learning applications;
- Scalable and energy-efficient machine learning techniques;
- Human-centered AI design and collaborative intelligence;
- Emerging trends: generative AI, foundation models, and automated ML;
- Cross-disciplinary applications of AI/ML in science, engineering, and social domains.

Guest Editors

Dr. Juefei Yuan

Computer Science Department, Southeast Missouri State University,
Cape Girardeau, MO 63701, USA

Dr. Bo Li

School of Computing Sciences and Computer Engineering, University
of Southern Mississippi, Hattiesburg, MS 39406, USA



Future Internet

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 10.0



mdpi.com/si/257307

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

[mdpi.com/journal/
futureinternet](https://mdpi.com/journal/futureinternet)





Future Internet

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 10.0



[mdpi.com/journal/
futureinternet](https://mdpi.com/journal/futureinternet)



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)