Special Issue

The Future of Robotics: AI Algorithms, Ethics, and Real-World Applications

Message from the Guest Editors

Robotics is entering a new era, driven by AI advances enabling robots to perceive, reason, learn, and act with growing autonomy. This Special Issue, *The Future of Robotics: AI Algorithms, Ethics, and Real-World Applications*, explores breakthroughs and challenges at the AI–robotics nexus. We invite contributions on novel AI algorithms for perception, decision-making, planning, and control; applications in healthcare, manufacturing, logistics, agriculture, and daily life; and research on ethical, legal, and societal aspects. Works on responsible innovation, transparency, fairness, and human-centered design are encouraged. Topics include: machine learning for control; autonomous robotics; computer vision; sensor fusion; digital twins; predictive maintenance; adaptive manufacturing; intelligent logistics; human–machine interaction; and AI ethics. We welcome original research and reviews.

Guest Editors

Dr. Ergina Kavallieratou

Dr. Nikolaos Vasilopoulos

Dr. Paraskevas Diamantatos

Deadline for manuscript submissions

31 January 2026

AI

AI

mdpi.com/journal/
ai

About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Kenji Suzuki
Biomedical Artificial Intelligence Research Unit (BMAI), Institute of
Integrated Research, Institute of Science Tokyo, Yokohama 226-8501,
Japan

Author Benefits

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

High Visibility:
indexed within ESCI (Web of Science), Scopus, EBSCO,
and other databases.

Journal Rank:
JCR - Q1 (Computer Science, Interdisciplinary Applications)
/ CiteScore - Q2 (Artificial Intelligence)