# 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

3 September 2026

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# About the Journal

## Message from the Editor-in-Chief

## Editor-in-Chief

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