

## Special Issue

# Artificial Vision Systems for Robotics

### Message from the Guest Editors

Artificial vision systems are playing an increasingly vital role in advancing robotic technologies. By enabling machines to interpret and understand their surroundings through visual data, artificial vision serves as a fundamental building block for intelligent behaviour in autonomous and semi-autonomous systems. This fusion of vision and robotics is redefining the way robots perceive and interact with the world, moving beyond scripted, rigid behaviours toward more adaptive, responsive, and context-aware operation. This Special Issue aims to highlight cutting-edge research and practical innovations at the intersection of vision and robotics. It seeks to bring together contributions that explore both foundational techniques and application-driven advancements in this rapidly evolving field. Emphasis is placed on how artificial vision enhances robotic perception, control, autonomy, and adaptability in real-world scenarios. Contributions that introduce novel algorithms, demonstrate performance in realistic or challenging conditions, or provide publicly available datasets, source code, or tools that benefit the research community are especially encouraged.

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### Guest Editors

Dr. Konstantinos Tsintotas

Dr. Ioannis Kostavelis

Dr. Kyriakos Tsiakmakis

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### Deadline for manuscript submissions

31 March 2026



## Robotics

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## About the Journal

### Message from the Editor-in-Chief

It is my great pleasure to welcome you to our open access journal, *Robotics*, which is dedicated to both the foundations of artificial intelligence, bio-mechanics and mechatronics, and the real-world applications of robotic perception, cognition and actions. The 21st century is the robotics century and intelligent robots will change our lifestyle forever. Let us work together toward the realization of intelligent robots step by step. It is great fun to create intelligent robots and imagine their practical applications. *Robotics* is now ready to serve you in the long journey towards such a goal.

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### Editor-in-Chief

Prof. Dr. Marco Ceccarelli

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