

Special Issue

Smart Agriculture with AI and Robotics

Message from the Guest Editor

The integration of robotics and artificial intelligence (AI) into agriculture is revolutionizing the way we grow, manage, and harvest food. This Special Issue focuses on cutting-edge advances in intelligent robotic systems designed for smart agriculture, with emphasis on autonomy, precision, and sustainability. Topics of interest include agricultural mobile robots and drones, AI-driven perception and decision-making, task planning for field operations, crop monitoring and yield estimation, and human–robot collaboration in unstructured environments. Particular focus is given to real-world deployment of robotic solutions that address agricultural challenges such as labor shortages, resource efficiency, and climate adaptation. We welcome original research articles, reviews, and case studies that demonstrate the potential of robotics and AI in transforming agriculture into a more productive, data-driven, and environmentally sustainable sector.

Guest Editor

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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.

Editor-in-Chief

Prof. Dr. Marco Ceccarelli

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