



Recent Advances in Robotics and Automation Systems

Guest Editors:

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Deadline for manuscript
submissions:

15 April 2025

Message from the Guest Editors

Precision agriculture is an emerging field that aims to increase agricultural productivity while minimizing the use of resources such as water, fertilizers, and pesticides. We invite articles and reviews on the following (but not limited to) topics:

Robotics in agriculture: advancements, applications, and future prospects;

Precision sprayers: design, testing, and optimization for efficient pesticide and herbicide applications;

Precision spreaders: innovations and improvements in fertilizer and seed application;

Agricultural robots: uses and benefits for crop management, harvesting, and transportation;

Swarm robotics: potential applications and challenges in precision agriculture;

Sensing technologies for precision agriculture: advances in sensors, data analysis, and decision-making;

Automation and control systems for precision machinery: design, implementation, and performance evaluation;

Human–robot interaction in agriculture: challenges and opportunities for improving productivity and safety;

Precision machinery for sustainable agriculture: environmental impacts, resource management, and social.





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Message from the Editor-in-Chief

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