

Special Issue

Recent Advances in Robotics and Automation Systems

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.

Guest Editors

Dr. El Houssein Chouaib Harik

Prof. Dr. Frédéric Guinand

Dr. Krzysztof Kusnierek

Deadline for manuscript submissions

closed (15 April 2025)



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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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