

Special Issue

Robotics for Agricultural Production

Message from the Guest Editors

The transformation of agriculture is being driven by the critical need to enhance operational efficiency, radically optimise resource utilisation, and mitigate the severe impact of rising labour shortages. These pressing global challenges have catalysed the sector's evolution, moving on from basic automation toward the integration of complex and autonomous robotic systems. This Special Issue aims to significantly advance cutting-edge research on smart farming through the application of agricultural robotics. We solicit high-quality contributions addressing the practical implementation and validation of agricultural robotics in the form of original research papers and comprehensive reviews covering the design, modelling, control, deployment, and validation of both ground-based and aerial robotic systems. Key areas of interest include predictive plant health monitoring, ultra-targeted spot spraying, autonomous mechanical weeding, and fully automated harvesting and transport, thereby providing solutions that cover the complete crop cycle, from planting to post-harvest.

Guest Editors

Dr. Sergio Bayano Tejero

Department of Electronic and Computer Engineering, University of Cordoba, 14014 Cordoba, Spain

Dr. Rafael-Ruben Sola-Guirado

Department of Mechanics, University of Cordoba, 14014 Cordoba, Spain

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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

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Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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