

Special Issue

Towards Artificially Intelligent Robotics for Agriculture – Current Developments and New Trends

Message from the Guest Editor

Dear colleagues, Feeding the growing world population with limited natural resources is an exceptional challenge to humanity. The mechanization and robotization assisted in optimizing crop management and reducing chemicals and, currently, Artificial Intelligence (AI) is helping farmers to improve process efficiency and diminish negative environmental impacts. The undeniable next stage will be the integration of AI and robotics. To compile the current status and new trends on artificially intelligent robotics for agriculture, this Special Issue of *Agronomy* welcomes papers related, but not limited, to:

- Autonomous ground vehicles;
- Autonomous aerial vehicles;
- Automatic and intelligent implements;
- Manipulation: harvesting, soft manipulation, dual-arm manipulators;
- Artificial perception;
- IoT, cloud computing, and big data;
- Artificial intelligence.

Specific applications of these topics will also be a valuable contribution to this Special Issue.

Guest Editor

Prof. Dr. Pablo Gonzalez-de-Santos

Centre for Automation and Robotics, Spanish National Research Council – (CSIC), 28500 Arganda del Rey, Madrid, Spain

Deadline for manuscript submissions

closed (1 March 2021)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.2



mdpi.com/si/42512

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

[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.2



[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)



About the Journal

Message from the Editor-in-Chief

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.

Agronomy is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)