



Application of Robots and Automation Technology in Agriculture

Guest Editors:

Prof. Dr. José Lima

**Prof. Dr. José Boaventura
Ribeiro da Cunha**

Prof. Dr. Antonio Valente

Dr. Filipe Neves Dos Santos

Deadline for manuscript
submissions:

closed (25 March 2023)

Message from the Guest Editors

Dear Colleagues,

Automation, robotics, AI, and IoT enable precise farm operations and environmentally sustainable practices to be achieved by allowing precision management of nutrients and plant protection products, mechanical weed removal, harvesting, and reducing the need for human labour. This Special Issue will address new topics of robotics and automation technology applied to agriculture. The aim is to publish new works and advances in research using technological innovations to automate the processes of farming, aiding a move toward remedying the lack of human resources in the agriculture field.

Submissions are welcome from topics including—not limited to—the following:

Mobile robotics applied to agriculture support;
Unmanned aerial robotics to support agriculture tasks and monitoring of environmental applications;
Collaborative manipulators to support people on agricultural applications (soil preparation, seeding, crop protection);
Robots for pruning, thinning, harvesting, mowing, and spraying;
Robotic platforms for monitoring, prediction, and aiding in decision making;
IoT for sampling and data collection.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture,
School of Life and Environmental
Sciences, The University of
Sydney, Sydney, NSW 2006,
Australia

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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, RePEc, and other databases.

Journal Rank: JCR - Q1 (*Agronomy*) / CiteScore - Q2 (*Plant Science*)

Contact Us

Agriculture Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agriculture
agriculture@mdpi.com
[X@AgricultureMdpi](https://twitter.com/AgricultureMdpi)