# Special Issue

# Application of Robots and Automation Technology in Agriculture

## Message from the Guest Editors

Automation, robotics, Al, 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.

#### **Guest Editors**

Prof. Dr. José Lima

Prof. Dr. José Boaventura Ribeiro da Cunha

Dr. Antonio Valente

Dr. Filipe Neves Dos Santos

### Deadline for manuscript submissions

closed (25 March 2023)



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

mdpi.com/journal/agriculture





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# **About the Journal**

## Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

#### 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

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