





an Open Access Journal by MDPI

AI and Agricultural Robots

Guest Editor:

Dr. Siddhartha S. Mehta

Department of Mechanical & Aerospace Engineering, University of Florida, Gainesville, FL 32611, USA

Deadline for manuscript submissions:

closed (15 April 2022)

Message from the Guest Editor

Robotics and automation in agriculture can help to mitigate labor shortages by reducing reliance on manpower and improve agricultural productivity to support sustainable economic development and growth. However, the marketability and adoption of robotic systems in agriculture is currently limited by economic and technology barriers that prevent highly efficient autonomous operations at a cost that justifies the low commodity values.

Artificial Intelligence (AI) holds promise in overcoming several technology barriers to improve the performance of agricultural robotic systems. Recent advances have led to growth in the use of AI in a variety of agricultural applications. Beyond the current state of knowledge, further research in efficient architectures along with scalable and fast training methods is necessary to expand AI toolboxes to meet performance requirements in agriculture while considering the restricted computational capacity. Furthermore, the potential of AI in agriculture can be realized through solution approaches that are robust with respect to uncertain, unstructured, and varying agricultural environments.











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

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

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.

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)

Contact Us