



Agricultural Collaborative Robots for Smart Farming

Guest Editors:

Prof. Dr. Bin Xie

College of Engineering, China
Agricultural University, Beijing,
China

Prof. Dr. Zhijun Meng

National Engineering Research
Center of Intelligent Equipment
for Agriculture, Beijing, China

Prof. Dr. Jun Zhou

College of Engineering, Nanjing
Agricultural University, Nanjing,
China

Deadline for manuscript
submissions:

closed (31 December 2024)

Message from the Guest Editors

Dear Colleagues,

The world population is increasing annually, putting higher requirements on the scale, integration, automation, and intelligence of the world's agricultural production. In the background of an aging global population and seasonal manpower shortages, agricultural robotics shows great potential for application. At present, a number of agricultural robots for independent execution of specific tasks (e.g., plant protection, monitoring, feeding, harvesting, etc.) have been developed and are well applied.

This special issue aims to introduce the application of collaborative agricultural robots in smart farming. Topics of interest include but are not limited to: human-robot cooperation in modern agricultural scenarios (collaboration theory, interaction methods, etc.), collaborative unmanned aerial vehicles (UAVs) for livestock monitoring, collaborative unmanned ground vehicles (UGVs) for harvesting/transportation, collaboration between UAVs and UGVs for plant protection, Multi-arm collaborative robot for fruit and vegetable picking. Welcome original research articles and reviews.





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, 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.

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), GEOBASE, PubAg, AGRIS, RePEc, and other databases.

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

Contact Us

Agriculture Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/agriculture
agriculture@mdpi.com
X@AgricultureMdpi