

## Special Issue

# Intelligent Agricultural Machinery Equipment for Boosting Grain and Oil Crop Yields

### Message from the Guest Editors

Since the beginning of the 21st century, breakthroughs in satellite navigation, the Internet of Things, and artificial intelligence have ushered the agricultural machinery used in grain and oil crop cultivation into a new era of intelligence. These technologies utilize sensors to analyze soil, grain, and oil crop data in real time, enabling a closed-loop system of decision-making and execution. Currently, intelligent agricultural machinery is advancing the digitalization, automation, and sustainability of agricultural production, serving as a vital pillar in ensuring global food and oil security.

This Special Issue focuses on the application of automation and information technology in grain and oil crop agricultural machinery. With this goal in mind, it welcomes highly interdisciplinary high-quality studies from disparate research fields including precision agriculture technology, unmanned farms, agricultural robots, autonomous operation platforms, automatic navigation, operation path planning, perception and recognition technology, the research and development of UAVs, and intelligent sensing systems. Original research articles and reviews are accepted.

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### Guest Editors

Dr. Xiaojun Gao

Dr. Lei Wang

Dr. Yinyan Shi

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### Deadline for manuscript submissions

closed (25 April 2026)



## 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.

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### Editor-in-Chief

Prof. Dr. Les Copeland

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