# 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.

#### **Guest Editors**

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# Deadline for manuscript submissions

30 October 2025



# Agriculture

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mdpi.com/si/238594

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# **About the Journal**

## Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. Agriculture is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

## Editor-in-Chief

#### Prof. Dr. Les Copeland

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