

Special Issue

Key Technology Research and Applications of Agricultural Inspection Robots Based on Machine Vision and Artificial Intelligence

Message from the Guest Editors

In the rapidly evolving realm of modern agriculture, machine vision (MV) and artificial intelligence (AI) have emerged as pivotal technologies, revolutionizing multiple agricultural sectors. The integration of MV and AI in agriculture promotes intelligent automation, reduces costs, enhances productivity, and reveals significant potential for the development of smart farming.

We are delighted to announce a new Special Issue focused on the cutting-edge research and applications of MV and AI in agriculture. Our research scope covers diverse topics, such as optimizing the visual systems of agricultural inspection robots for precise plant phenotyping and early pest detection in the planting industry; utilizing robotic MV and AI for livestock behavior analysis and health management; and deploying inspection robots integrated with MV and AI gas sensors to improve safety in agricultural research laboratories. We sincerely invite original research papers and comprehensive reviews to further explore and innovate in this vibrant field.

Guest Editors

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Deadline for manuscript submissions

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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

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