

Special Issue

Applications of Imaging Technology in Agriculture

Message from the Guest Editors

This Special Issue focuses on the integration of advanced imaging technologies into modern agricultural systems to improve productivity, sustainability, and quality assessment. The primary focus is on non-destructive, real-time imaging approaches—such as hyperspectral imaging, multispectral imaging, thermal imaging, and computer vision—combined with artificial intelligence (AI) and data-driven analytics. The scope of this Special Issue covers a wide range of applications across the agricultural value chain, including crop monitoring, plant phenotyping, disease detection, soil and water assessment, postharvest quality evaluation, and food processing. It also encompasses emerging interdisciplinary approaches that integrate imaging technologies with precision agriculture, smart farming, and digital twins. Contributions addressing sustainability, resource efficiency, and green analytical methods are particularly encouraged.

The purpose of this Special Issue is to provide a platform for cutting-edge research and reviews that demonstrate how imaging technologies can transform traditional agricultural practices into intelligent, automated, and sustainable systems.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

AgriEngineering (ISSN 2624-7402) is an international open access, open-source, and cross-disciplinary scientific journal on the engineering science of agricultural and horticultural production. Our aim is to encourage scientists to publish their experimental and theoretical research, along with the full set of schematics, source-code, and mechanical design models leading to accelerated and rapid dissemination of leading-edge technologies emerging in agricultural, environmental, and agronomic engineering. *AgriEngineering* publishes articles, technical notes, reviews, commentaries, and case/field reports, as well as Special Issues on particular subjects.

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