

Special Issue

Deep Learning in Agriculture: Enhancing Informatics for Precision Farming

Message from the Guest Editor

Recent advances in deep learning and data-driven modeling have opened new opportunities for transforming modern agriculture into a highly efficient, autonomous and adaptive system. This Special Issue aims to explore emerging artificial-intelligence techniques that enhance precision farming, resource optimization and agricultural task automation. While the existing literature has demonstrated the value of deep learning across specific tasks, there remains a need for broader experimental studies that evaluate a wide range of AI models—including lightweight CNNs, transformer-based vision models, large language models (LLMs) and multimodal architectures—within realistic agricultural environments. Submissions that evaluate the feasibility, limitations and potential of emerging models including generative AI and large-scale pretrained models are highly encouraged. We hope this Special Issue will stimulate interdisciplinary collaboration among researchers in precision agriculture, computer vision, robotics, plant science and AI engineering, ultimately contributing to sustainable and intelligent farming systems for the future.

Guest Editor

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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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