

## Special Issue

# Advanced Machine Learning in Agriculture

### Message from the Guest Editors

Responding to an era marked by the relentless pursuit of innovation and sustainability in farming practices, this collection of articles delves into the transformative potential of artificial intelligence, specifically machine learning and deep learning techniques, in revolutionizing the agricultural landscape. Machine learning, with its ability to process vast datasets and uncover hidden patterns, enables us to make sense of the intricate web of factors that affect agricultural production. Whether predicting crop yields with unprecedented accuracy, identifying and managing pest infestations, optimizing resource allocation, or enhancing the breeding of resilient crops, machine learning empowers us to make informed decisions that drive efficiency, sustainability, and profitability in agriculture. We welcome contributions that encompass smart farming, precision agriculture, and data-driven solutions across the agricultural spectrum. Our contributors include esteemed researchers and practitioners from around the globe, each offering valuable insights into the dynamic field of advanced machine learning in agriculture.

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### Guest Editors

Dr. Paul Kwan

Dr. Jing Zhou

Dr. Beibei Xu

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### Deadline for manuscript submissions

closed (31 March 2025)



## Agronomy

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### Message from the Editor-in-Chief

*Agronomy* draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

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### Editor-in-Chief

Prof. Dr. Leslie A. Weston

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