# Special Issue

# Advanced Machine Learning in Agriculture—2nd Edition

# Message from the Guest Editors

In today's world, where the global population continues to rise and climate change presents increasingly complex challenges, agriculture stands at a crossroads. It must meet the growing demand for food while mitigating its environmental footprint. The emergence of smart farming and smart agriculture, driven by machine learning, holds immense promise in achieving this delicate balance. 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 are particularly excited about the diverse array of topics covered in this Special Issue. We welcome contributions that encompass smart farming, precision agriculture, and data-driven solutions across the agricultural spectrum.

#### **Guest Editors**

Dr. Paul Kwan

Dr. Jing Zhou

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# Deadline for manuscript submissions

30 November 2025



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## Editor-in-Chief

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