

Special Issue

Integrating Yield Maps, Soil Data, and IoT for Smarter Farming

Message from the Guest Editor

The integration of yield maps, soil data, and Internet of Things (IoT) technologies is a crucial tool in precision agriculture (PA), allowing for smarter, data-driven farming practices that optimize crop yields, resource utilization, and sustainability. Recent research has demonstrated that integrating real-time sensor networks, advanced data analytics, and machine learning models enables the precise monitoring of soil health, crop growth, and environmental conditions, ultimately leading to enhanced decision-making and operational efficiency. Agriculture 4.0 emerged in the early 2010s, driven by the adoption of the IoT, sensors, and data analytics for PA; next, Agriculture 5.0 was conceptualized in the late 2010s and early 2020s, with implementation still in its early stages, integrating advanced technologies like artificial intelligence and robotics, with a stronger emphasis on sustainability, human-centric design, and social impact. This Special Issue aims to promote advances in modeling and integrating yield maps, soil data, and IoT for Agriculture 4.0 and 5.0. We invite you to submit articles on these subjects.

Guest Editor

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Deadline for manuscript submissions

28 February 2026



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/250141

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