# Special Issue

# Smart Farming Practices and Technologies for Agricultural Soil Management

## Message from the Guest Editors

Over the past decades, soil degradation, nutrient depletion, and inefficient farming practices have posed critical challenges. In response, the integration of digital technologies into agriculture—commonly referred to as "smart farming"-has emerged as a transformative approach to optimize soil management, enhance productivity, and reduce environmental impact. This Special Issue aims to explore the potential of smart farming practices and innovative technologies in advancing sustainable soil management. We welcome original research and review articles that investigate the role of precision agriculture, data-driven decisionmaking, and digital tools in improving soil health and agricultural resilience. The scope includes but is not limited to the use of sensors, Al, machine learning, robotics, geospatial technologies, remote sensing and IoT applications in soil monitoring, fertility management, carbon sequestration, and processes that degrade its functions and the services it provides. Contributions focusing on practices and solutions to achieve the United Nations' sustainable development goals and addressing the EU Soil Strategy for 2030 are welcome.

### **Guest Editors**

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# Deadline for manuscript submissions

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Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

#### Editor-in-Chief

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