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Smart Farming Technologies for Sustainable Agriculture

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Deadline for manuscript submissions:
closed (31 March 2024)

Message from the Guest Editors

Smart farming (SF) involves a variety of technologies, such as mapping and recording technologies (satellite and unmanned aerial vehicles imagery, multiple types of sensors, and Internet of Things connected weather stations), farm management information systems or decision support systems, technologies, such as variable rate application and agricultural robots. SF has been suggested as a promising driver for achieving higher sustainability performance without compromising the environment and human health. SF technologies may potentially lead to more efficient use of inputs (e.g., fertilizers, pesticides, irrigation, labour), to the reduction of production costs, to the minimization of the environmental footprint, and to improved product quality. In the light of climate breakdown and the need for adaptation and mitigation policies, the adoption of SF technologies is now more than ever an imperative. We invite you to contribute to this Special Issue by submitting original research articles, reviews, and case studies that provide scientific evidence of the actual impacts of SF technologies on the environmental, economic, and social sustainability of farms.

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Message from the Editor-in-Chief

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