Special Issue

New Development in Smart Farming for Sustainable Agriculture

Message from the Guest Editors

Smart farming is a relatively new farming management concept. It combines precision agriculture with digital technology. Many techniques and tools, such as Artificial Intelligence, the Internet of things, big data analysis, machine learning, modern communication technologies, development of GNSS and Earth observation systems, drones, robots and automation systems, are employed to make modern agriculture more "intelligent" and "smart".

The Smart Farming approach is becoming an essential step toward sustainable agriculture by reducing the environmental impact of farming, and increasing consumer acceptance of agricultural technologies and products. Modern sensors collect information about parameters of crops, soil, water, etc. The acquired data are stored, processed, and analyzed, and valuable knowledge is extracted. Control and decision support systems use knowledge for the optimization and automatization of agricultural processes.

This Special Issue aims to present state-of-the-art papers related to a wide range of reviews, research papers, communications, technical papers, research concepts, and perspectives of smart farming in sustainable agriculture.

Guest Editors

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Deadline for manuscript submissions

closed (20 October 2024)

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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