Special Issue

Role of Smart Sensors and Control Systems in Agriculture

Message from the Guest Editor

The world population is expected to reach 9.8 billion by 2050 from the current level of 7.6 billion, which will significantly increase the food demand. New developments in digital technology can help us to meet the increased crop demand in a sustainable way. A smart agriculture production system developed by a technology-driven crop management method that integrates internet of things (IOT), wireless sensing technology, cloud-based monitoring and cloud computing, big data analytics, artificial intelligence (AI), machine learning, mathematical modeling, machine vision, automation, and precision agriculture can significantly increase crop yield with optimum use of natural resources (fertilizers, seeds, nutrients, water, pesticides, and energy), minimize pre/postharvest losses, and increase farm operation efficiency and income. We invite researchers to publish their research work related to the application of IOT, AI, machine learning, smart sensing and automation technologies in areas of field crop production, horticulture, green house production, irrigation, and postharvest storage and handling.

Guest Editor

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