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# Artificial Intelligence and Automation in Sustainable Smart Farming

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Deadline for manuscript submissions: closed (28 February 2022)



Message from the Guest Editors

Dear Colleagues,

In "The 2030 Agenda for Sustainable Development", the United Nation and international community set a target to eliminate Hunger from the world by 2030. Additionally, the world population is anticipated to reach to 10 billion by 2050, as per a report by World Resources Institutes published in 2018. Hence, to reach this anticipated increase in food demand, artificial intelligence (AI) based sustainable smart farming and precision livestock is an inevitable approach.

The main purpose of this Special Issue is to identify and report innovative and novel research outcomes on applications of AI, machine learning, deep learning, remote sensing and autonomous systems in smart farming and precision livestock. Contributions may include, but not limited to, the use of autonomous tractors, sprinklers and other instruments; infestation detection and removal using UAV images; crop health monitoring and yield prediction; vaccination scheduling of livestocks; the use of big data and high performance computing for agriculture and livestock.

Dr. Nahina Islam Dr. Santoso Wibowo Prof. Dr. Johnson Ihyeh Agbinya *Guest Editors* 



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