



Internet of Things (IoT) and Agricultural Unmanned Aerial Vehicles in Smart Agriculture

Guest Editor:

Dr. Wanxue Zhu

Department of Crop Sciences,
University of Göttingen, Von-
Siebold-Str. 8, 37075 Göttingen,
Germany

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Message from the Guest Editor

The Internet of Things (IoT) and unmanned aerial vehicles (UAVs) are transforming the way agriculture is being practiced, ushering in the era of smart agriculture. UAV remote sensing observations and IoT sensors can provide farmers with a wealth of real-time data and depict the spatial patterns of crop growth status and environmental conditions. With this information, farmers can make informed decisions about how to optimize crop production and resource usage, including water, fertilizer, or pesticide practices, and take necessary actions before problems escalate and result in significant crop losses. On the other side, the combination of IoT and UAV technology makes it possible to automate many farming processes, including monitoring and controlling irrigation systems, thereby reducing water waste and optimizing plant growth, as well as reducing the need for human intervention and increasing efficiency.

This Special Issue focuses on the application of IoT and UAVs in agriculture for better serving agro-management via providing real-time and accurate information of crop growth (including field crops, vegetation, ornamental, and fodders).





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Agriculture Editorial Office
MDPI, Grosspeteranlage 5
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