Special Issue

Advancing Smart Farming through Agricultural Robots and Automation Technologies

Message from the Guest Editor

Agricultural robotics and automation technologies are two rapidly spreading fields that can revolutionize agriculture through the development of robotic and automatic systems to remedy farm labor shortages, improving efficiency, productivity, and safety with a focus on sustainability. These robots can be equipped with several sensors and cameras for real-time data collection to monitor soil and environmental parameters. This can help farmers in inputs optimization, to reduce costs and environmental impact and for the early detection of pest infections or nutrient deficiencies. In this Special Issue, we invite authors to publish their research on the development and application of agricultural robots and automation technologies in the agriculture, forestry and livestock sectors. Research areas include but are not limited to:

- Development of robotic systems to reduce farming inputs and environmental impact
- Employment in agriculture, forestry, and livestock sectors of unmanned aerial vehicles
- 3D image reconstruction and object detection from unmanned aerial and ground vehicles
- Precision agriculture and smart farming solutions

Guest Editor

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