Harvesting Robotics towards Smart Agriculture

Guest Editor:

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Message from the Guest Editor

As the population ages and the level of agricultural labor reduces, agricultural production costs are rising. Harvesting work with high labor intensity and low efficiency needs to be replaced by agricultural automation. Robotics and automation in agriculture can help to mitigate labor shortages and can improve agricultural productivity.

The benefits of precision agriculture involve increasing crop yields and quality while reducing the environmental impact. But agricultural automation is limited by economic and technology barriers. Recently, with the improvement of the performance of agricultural robot systems and harvesting automation technology, they have been widely used in agricultural applications.

These challenges related to the application of harvest automation in agricultural robots and precision agriculture are expected to be discussed in the Special Issue. We explore various methods of crop yield harvesting, the adaptation of big data and the application of inter-seasonal databases from different platforms in crop yield harvesting. We invite studies focusing on applications in harvesting methods, data fusion and the adaptation of big data to be submitted.

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Special Issue

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Message from the Editor-in-Chief

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