Special Issue

Facility Agriculture Robots and Autonomous Unmanned Management for Crops

Message from the Guest Editors

Facility agriculture refers to agricultural production activities carried out at artificial facilities to improve crop yield and quality and achieve year-round production. The management of facility crops should take into account efficiency and precision, striving to continuously improve yield and quality through intelligent technical means. As a global research hotspot, facility agriculture robots have played a very important role in this field, and the future will see the development of more interesting and effective facility production techniques for crops. The application of facility agriculture robots requires, as a basis, research into agronomic mechanisms such as fruit mechanical characteristics, to avoid mechanical damage, and accurate image recognition, to reduce the number of vegetable flowers. Research into these basic agronomic theories represents the premise behind robots being used for efficient production. In the future, the ultimate goal is to build an unmanned and autonomous facility agricultural food production system to provide humans with healthier food. We hope that more scholars will publish high-quality research results to promote development in this field.

Guest Editors

Dr. Wei Ma

Institute of Urban Agriculture, Chinese Academy of Agriculture Sciences, Chengdu 610213, China

Dr. Zhiwei Tian

Institute of Urban Agriculture, Chinese Academy of Agricultural Sciences, Chengdu 610213, China

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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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