Special Issue

Intelligent Sensing and Machine Vision in Precision Agriculture

Message from the Guest Editors

Precision agriculture seeks to employ information technology to support farming operation and management, such as fertilizer inputs, irrigation management, pesticide application, etc. The temporal, spatial, and individual information related to environmental parameters and crop features are gathered, processed, and analyzed through various intelligent sensing technologies. Among them, machine vision technologies, including 3D/2D imaging, visible/near-infrared imaging, and hyperspectral/multispectral imaging, have been extensively used for precision agriculture, such as plant phenotyping, autonomous navigation, disease detection, production prediction, etc. Moreover, deep learning has greatly promoted the development of intelligent sensing technologies, which has a range of potential applications in precision agriculture.

Guest Editors

Dr. Yuwei Wang

Prof. Dr. Liqing Chen

Prof. Dr. Peng Chen

Dr. Bolin Cai

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

mdpi.com/journal/sensors

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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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