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Three-Dimensional (3D) Vision and Sensing Techniques for Biological and Agricultural Applications

Guest Editors:

Dr. Dongyi Wang

Biological and Agricultural Engineering, Univerisity of Arkansas, Fayetteville, AR 72701, USA

Dr. Lirong Xiang

Department of Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC 27695, USA

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Message from the Guest Editors

Three-dimensional (3D) vision is a powerful and useful extension of regular color cameras. With rapid developments in 3D vision hardware and analysis software algorithms, 3D vision techniques have been widely used in biological and agricultural domains, such as product quality controlling, plant phenotyping, animal behavior monitoring. Meanwhile, 3D vision sensors can be integrated into automation or robotic systems for better environmental perception.

The objective of this Special Issue is to collect high state-of-the-art research contributions, tutorials, and position papers that address the broad 3D vision challenges in biological and agricultural applications, which include, but are not limited to, 3D vision system design, conventional-or deep-learning-based RGB-D image/ point cloud data analysis, and in-field or online 3D vision applications. Original papers describing completed and unpublished work that are not currently under review by any other journal, magazine, or conference, are solicited.













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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

Message from the Editor-in-Chief

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