

Special Issue

Advanced Image Processing in Agricultural Applications

Message from the Guest Editors

Application of image processing technology in agricultural production scenarios, such as fruit-picking robots, pest monitoring, growth environment factor monitoring, agricultural planting management, crop baking and drying, and seed quality breeding, has recently garnered increasing research interest. However, in a complex agricultural environment, image processing is rather difficult, as it can often lead to misclassification due to the interference of external factors, thereby resulting in erroneous experimental results. In addition, with the rapid development of image processing algorithms, the application of this technology in agriculture faces further challenges, including overlapping of agricultural products, serious occlusion of detection targets, excessive detection of targets, and difficulties in image processing due to light and camera angle. Therefore, advanced image processing technology in agriculture is an inspiring and promising area of research. This Special Issue aims to present state-of-the-art research achievements that contribute to a better understanding of the agricultural field in terms of image processing, environment perception, and sensor fusion.

Guest Editors

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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