



Innovative Technologies in Image Processing for Robot Vision

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Message from the Guest Editors

Robot vision is one of the primary approaches for robots to sense the environment. It has been widely used in various kinds of robots, including industrial robots, service robots, and specialized robots. Image processing is the fundamental technique of robot vision. Therefore, this Special Issue is intended for the presentation of new ideas and experimental results of image processing techniques in the application of robot vision.

Research work of robot vision based on RGB images, RGBD images, the point cloud data, x-ray images, infrared images, etc. are all topics of interest. The subtasks of robot vision include, but are not limited to, visual object detection, visual object tracking, image face recognition, facial expression recognition, human posture detection, hand gesture recognition, vision-based navigation, vision measurement, product defect detection, etc.

This Special Issue will publish high-quality, original research papers, in the overlapping fields of:

Image processing;

Machine vision;

Robot vision;

Deep learning;

Machine learning;

Product defect detection.





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Message from the Editor-in-Chief

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