

Special Issue

Applications of Machine Vision in Robotics

Message from the Guest Editors

Applications of machine vision in modern robotic systems are still one of the most dynamically growing areas of research in automation and robotics. This Special Issue on “Applications of Machine Vision in Robotics” will bring together the research communities interested in computer and machine vision from various departments and universities, focusing on both robotics as well as applied computer science. Topics of interest for this Special Issue include but are not limited to the following:

- Video simultaneous localization and mapping (VSLAM) solutions;
- Image-based navigation of unmanned aerial vehicles (UAVs) and other mobile robots;
- Applications of computer vision in autonomous vehicles;
- Fast algorithms useful for embedded solutions, e.g., based on the Monte Carlo method;
- No-reference image quality assessment;
- Texture analysis and shape recognition for UAVs and mobile robotics;
- Novel image descriptors that are useful for image-based classification of objects;
- Feature extraction and image registration, including remote sensing images.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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