Applications of Machine Vision in Robotics

Guest Editors:

Prof. Krzysztof Okarma
Faculty of Electrical Engineering, West Pomeranian University of Technology, 70-313 Szczecin, Poland

Dr. Piotr Lech
Faculty of Electrical Engineering, West Pomeranian University of Technology, 70-313 Szczecin, Poland

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Message from the Guest Editors

Dear Colleagues,

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.

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Special Issue

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Message from the Editor-in-Chief

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