

Special Issue

Advances in Perception and Mixed-Reality for Human-Robot Interactive Applications

Message from the Guest Editors

Advanced technologies for perception (e.g., 3D/depth cameras) and mixed reality enhance present-day opportunities and future perspectives in the context of human-robot interactive applications, in particular in the fields of manufacturing, surgery, aerospace, and mobile robotics. Indeed, strict safety requirements arise when robots have to share a common workspace with humans, or when robots have to provide assistance interacting with humans while accomplishing a common desired task. As a matter of fact, machine vision plays a fundamental role in achieving an effective human-robot collaboration, allowing the robot to plan its motions being aware of the human presence and intents, which could be often unpredictable.

This Special Issue welcomes contributions focused on the analysis, the design, and the implementation of innovative methods which involve the integration of machine vision and augmented/mixed reality within human-robot interactive applications.

Guest Editors

Dr. Saverio Farsoni

Department of Engineering, University of Ferrara, 44122 Ferrara, Italy

Dr. Marcello Bonfè

Department of Engineering, University of Ferrara, 44122 Ferrara, Italy

Deadline for manuscript submissions

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

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