



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

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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.





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Message from the Editor-in-Chief

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