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Stereo Vision-Based Perception, Navigation and Control for Intelligent Autonomous Systems

Guest Editors:

Dr. Adrian Burlacu
Department of Automatic Control and Applied Informatics, Gheorghe Asachi Technical University of Iasi, Iasi, Romania

Dr. Enric Cervera
Department of Computer Science and Engineering, Jaume I University, Castellon de la Plana, Spain

Deadline for manuscript submissions:
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Message from the Guest Editors

Vision is one of the most important awareness extensions that can be included in a system. With the technological advances obtained in the development of reliable artificial vision, the interactions between different autonomous systems have become more efficient and versatile.

The emerging role of machine vision in the motion planning and control of intelligent autonomous systems is one of the most discussed topics in multiple research areas (computer vision, robotics, artificial intelligence, assistive devices, etc.). Scene representation methods organize information from all sensors and data sources to build an interface between perception, navigation, and control. Stereo vision systems are among the most commonly used sensors to gather data from 3D environments. Stereo vision applications vary from autonomous driving to human–robot interactions and assisting devices for the visually impaired.

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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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