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Recent Advances in Robotics: Perception, Intelligent Control and Applications

Guest Editors:

Dr. Hu Su

Institute of Automation, Chinese Academy of Sciences, Beijing, China

Prof. Dr. Qingyi Gu

Institute of Automation, Chinese Academy of Sciences, Beijing, China

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Message from the Guest Editors

The advent of deep learning techniques has significantly promoted advances in intelligent visual perception, which has shown great application potential in various fields. For example, vision perception is critical for autonomous robots in navigating complex environments without human intervention. Meanwhile, visual perception is increasingly used in industrial scenes such as high-speed measurement, quality inspection, parts grabbing, and assembly. This Special Issue aims to provide a platform for the exchange of research works, technical trends, and applications. The scope of these papers may encompass measurement instruments, surface defect inspection, applications in robotic visual perception, visual servo control, and applications of intelligent vision in robotic and industrial systems.

Keywords

- automated manufacturing
- visual perception industrials
- applications in mechatronics and robotics
- applications of artificial intelligence in industrial electronic systems



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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
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