

## Special Issue

# Advances in Computer Vision and Artificial Intelligence Technologies for Industrial Robotics

### Message from the Guest Editors

The rapid development of artificial intelligence (AI), the Internet of Things (IoT), and robotics has significantly accelerated the digital transformation of industries and enhanced productivity in manufacturing, logistics, and other sectors. By moving towards higher levels of intelligence, Industry 5.0 places greater emphasis on efficient human–robot collaboration, which poses new challenges to the ability of intelligent industrial robots to perceive, reason, and act in dynamic and complex environments. In the meantime, ensuring the trustworthiness, security, and robustness of AI-driven systems has become a key issue for practical implementation that is essential for improving the public trust and acceptance of these technologies. This Special Issue will present the latest research and innovations at the intersection of computer vision, multi-modal sensing, and AI-based decision making and industrial robotics, as well as explore trustworthy, secure, reliable, AI-driven system design and development for achieving wider public acceptance and technology adoption.

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### Guest Editors

Dr. Lichao Yang

Faculty of Engineering and Applied Sciences, Cranfield University,  
Cranfield MK43 0AL, UK

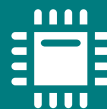
Dr. Zhuangkun Wei

Department of Engineering, Durham University, Durham DH1 3LE, UK

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### Deadline for manuscript submissions

10 July 2026



## Sensors

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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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

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