



sensors



an Open Access Journal by MDPI

Computer Vision and Virtual Reality: Technologies and Applications

Guest Editors:

Dr. Hai Huang

Dr. Yuehua Wang

Dr. Xuqiang Shao

Dr. Ming Meng

Deadline for manuscript
submissions:

20 October 2024

Message from the Guest Editors

Dear Colleagues,

Computer vision is one of the fundamental technologies for immersive virtual reality and augmented reality systems, in which cameras are often used to capture the real-world information. Sensor-captured imaging and related intelligent processing algorithms support 3D reconstruction, scene understanding, gesture recognition, eye tracking, object detection and tracking, etc., all of which contribute to creating a more realistic, interactive and fascinating virtual world.

This Special Issue is open to multidisciplinary research on the convergence of CV, VR/AR. It covers original research articles, reviews, and communication surveys in the described domain that include but are not limited to the following topics:

- Deep learning in image processing;
- Image segmentation;
- Object detection and recognition;
- Vision-based tracking and sensing;
- Pose estimation;
- Human–computer interaction;
- 3D reconstruction and computer graphics;
- SLAM;
- Scene understanding;
- Augmented reality;
- Emerging VR/AR applications and systems based on CV technologies.



mdpi.com/si/179811

We look forward to receiving your contributions.

Special Issue



sensors



an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)