Special Issue

Computer Vision and Virtual Reality: Technologies and Applications

Message from the Guest Editors

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.

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (20 October 2024)

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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.

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