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## Computer Vision and Virtual Reality: Technologies and Applications

Guest Editors:

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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.



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We look forward to receiving your contributions.

# Special Issue



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## Message from the Editor-in-Chief

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