

Special Issue

Three-Dimensional Computer Vision: Reconstruction, Generation, and Intelligent Systems

Message from the Guest Editors

3D computer vision focuses on processing and understanding 3D data from images, videos, or multimodal sensory inputs. Over the past decades, the field has made substantial progress and has been widely applied in smartphones, AR/VR systems, robotics, autonomous driving, and industrial inspection. 3D reconstruction and 3D generation have emerged as a rapidly growing research direction, and reliable and explainable 3D perception has become increasingly essential.

This Special Issue invites contributions from researchers to present their latest advancements. Submissions may include, but are not limited to, the following topics:

- Foundation models for 3D vision
- 3D generation of objects and scenes with geometric consistency
- Understanding of static and dynamic scenes
- Self-supervised and weakly supervised learning in 3D vision
- Industrial applications of 3D vision
- 3D generation for design, engineering, and digital twins
- 3D vision for augmented, virtual, and mixed reality
- 3D perception for intelligent systems
- Explainable, reliable, and robust 3D AI in real-world

Guest Editors

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About the Journal

Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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