Special Issue

Advances in 3D Computer Vision and 3D Data Processing

Message from the Guest Editors

This Special Issue, "Advances in 3D Computer Vision and 3D Data Processing", aims to highlight cutting-edge research and technological advancements in the rapidly evolving domains of 3D computer vision and data processing. With the increasing demand for precise 3D data acquisition, analysis, and application across diverse fields such as robotics, augmented reality (AR), virtual reality (VR), healthcare, and autonomous systems, this Special Issue seeks to provide a platform for innovative solutions addressing current challenges and exploring new possibilities. **Topic list:**

- 3d object recognition and classification;
- Point cloud processing and analysis;
- Scene reconstruction and depth estimation;
- Generative AI for 3D model creation;
- Multi-view geometry and stereo vision techniques;
- Neural representations for 3D data (e.g., neural fields, NeRFs);
- Applications of 3D vision in AR/VR and the metaverse;
- Efficient algorithms for large-scale 3D data fusion;
- Robustness and security in 3D computer vision systems;
- Evaluation metrics and benchmarks for 3D vision algorithms;
- Parallel and distributed computing for 3D data processing.

Guest Editors

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Dr. Linbo Qiao

Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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