

Special Issue

3D Image Processing: Progress and Challenges

Message from the Guest Editor

3D image processing is becoming increasingly transformative across a wide range of application domains. Although initially developed for computer graphics, 3D imaging is now indispensable in fields such as autonomous driving, medical diagnostics, virtual and augmented reality, robotics, geospatial analysis, and industrial inspection. The widespread availability of affordable 3D sensors—such as LiDAR, depth cameras, and photogrammetry-based systems—has created a growing demand for scalable and robust 3D data-processing pipelines.

This Special Issue welcomes high-quality contributions on topics including, but not limited to, 3D point cloud sampling and restoration, GSP- and GNN-based models, model-based deep learning, LLM-guided 3D analytics, advanced rendering methods like Gaussian splatting, and machine-optimized 3D coding. Interdisciplinary applications in healthcare, smart cities, robotics, and digital twins are particularly encouraged.

Guest Editor

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Deadline for manuscript submissions

28 February 2026



Journal of Imaging

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.7
Indexed in PubMed



mdpi.com/si/242968

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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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