

# Special Issue

## Advances in 3D Point Cloud Processing

### Message from the Guest Editor

Point clouds have become a fundamental data modality for capturing and representing the 3D world, driving innovations across autonomous systems, robotics, and embodied intelligence. This Special Issue seeks to highlight pioneering research that advances point cloud processing in an era shaped by generative AI and embodied AI paradigms. We invite submissions addressing key challenges, including high-fidelity 3D reconstruction from sparse inputs, novel 3D representation for embodied intelligence that bridges perception and action, and comprehensive 3D scene understanding at multiple levels. We also welcome work on intelligent 3D scene editing, integration of point clouds with physical properties such as material attributes and mechanical behavior, and the intersection with generative AI, including point cloud synthesis, completion, and language-guided generation. Through this collection, we aim to catalyze advances that will shape the next generation of 3D perception and intelligence.

### Guest Editor

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### Deadline for manuscript submissions

31 December 2026



## Journal of Imaging

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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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### Editor-in-Chief

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