

Special Issue

Exploring Challenges and Innovations in 3D Point Cloud Processing

Message from the Guest Editors

This Special Issue aims to provide an in-depth exploration of the complexities and advancements in 3D point cloud processing, with a focus on the use of artificial intelligence (AI) and advanced computational processing techniques. This Special Issue aims to bring together all the different steps of 3D point cloud processing, including algorithms for mesh model generation, geospatial mapping, semantic analysis, feature extraction, visualization, and real-world interpretation and case studies. And also aims to include advances in visualization and interpretation tools. Addressing real-world case studies that highlight the potential in a variety of fields, from precision agriculture to forest management, from cultural heritage to infrastructure inspection. In summary, this Special Issue aims to be a comprehensive compendium of research and innovation in 3D point cloud processing, offering insights into emerging trends, challenges, and opportunities. By promoting interdisciplinary collaboration and knowledge exchange, aims to advance the field, highlighting advances in AI-driven point cloud processing and opening new frontiers in research, industry, and social impact.

Guest Editors

Dr. Silvio Del Pizzo

Centro Direzionale Isola C4, Parthenope University of Naples, 80143 Naples, Italy

Dr. Luca Perfetti

Department of Civil, Environmental, Architectural Engineering and Mathematics, Università degli Studi di Brescia, Via Branze, 43, 25123 Brescia, Italy

Deadline for manuscript submissions

closed (30 November 2024)



Journal of Imaging

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.7
Indexed in PubMed



mdpi.com/si/198583

Journal of Imaging
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jimaging@mdpi.com

mdpi.com/journal/

jimaging





Journal of Imaging

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.7
Indexed in PubMed



[mdpi.com/journal/
jimaging](https://mdpi.com/journal/jimaging)



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.

Editor-in-Chief

Prof. Dr. Raimondo Schettini

Department of Informatics, Systems and Communication, University of
Milano-Bicocca, viale Sarca, 336, 20126 Milano, Italy

Author Benefits

Open Access

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), PubMed, PMC, dblp, Inspec, Ei Compendex, and other databases.

Journal Rank:

JCR - Q2 (Imaging Science and Photographic Technology)
/ CiteScore - Q1 (Radiology, Nuclear Medicine and Imaging)