Journal of Imaging

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# Exploring Challenges and Innovations in 3D Point Cloud Processing

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## 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.

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## 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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