

Special Issue

AI-Driven Image and Video Understanding

Message from the Guest Editors

Artificial Intelligence (AI) has transformed image and video understanding, moving from theory to practical applications across medical, autonomous vehicles, multimedia, and surveillance. This Special Issue highlights cutting-edge research at the intersection of AI and visual content understanding, addressing both opportunities and challenges.

The explosive growth of high-resolution images and long-form videos, together with advances in deep learning architectures, generative models, and multimodal fusion techniques, has created an urgent need for innovative solutions. We seek submissions that explore novel neural architectures for image and video understanding, multimodal data processing, AI-driven computer vision, and real-world vision applications.

We encourage contributions combining rigorous theoretical foundations with robust empirical validation, tackling key challenges in visual AI. By connecting researchers from computer vision, machine learning, and diverse application domains, this Special Issue aims to accelerate knowledge exchange, foster innovation, and demonstrate how AI can unlock deeper, more reliable insights from visual data with tangible societal benefits.

Guest Editors

Dr. Gongyang Li
Dr. Xiaofei Zhou
Dr. Yong Wu

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

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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.

Editor-in-Chief

Prof. Dr. Raimondo Schettini

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

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