

Special Issue

Image Segmentation Techniques: Current Status and Future Directions (2nd Edition)

Message from the Guest Editors

Image segmentation, as a fundamental and challenging task in many subjects such as image processing and computer vision, is of great importance but is constantly challenging to deliver. Briefly speaking, it is the process of assigning a label to every pixel in an image according to certain characteristics such as intensity, biometrics and semantics. It is generally a prerequisite and plays a key role in its ubiquitous practical applications, such as machine vision, medical imaging, detection, recognition, and autonomous driving. Researchers are increasing their efforts to develop new segmentation techniques based on, e.g., mathematical/statistical models, biometrics, and machine learning via deep neural networks to tackle existing and upcoming challenges. This Special Issue aims to gather innovative research on image segmentation techniques, ranging from the current status to future directions, and from hand-crafted techniques to deep learning, etc. We also welcome submissions including, but not limited to, applications in digital imaging, medical imaging, object detection, and recognition tasks, among other related topics

Guest Editors

Dr. Xiaohao Cai

School of Electronics and Computer Science, University of Southampton, Southampton SO17 1BJ, UK

Prof. Dr. Gaohang Yu

Department of Mathematics, Hangzhou Dianzi University, Hangzhou 310018, China

Deadline for manuscript submissions

31 October 2025



Journal of Imaging

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.7
Indexed in PubMed



mdpi.com/si/215403

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

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