

# Special Issue

## Explainable AI in Computer Vision

### Message from the Guest Editor

As AI continues to revolutionize computer vision, the demand for explainability has never been more crucial. This is especially the case when AI is used for high-stakes decision making. As a result, there has been a boom in the methods to improve our understanding of the black box nature of AI. These methods are commonly referred to as explainable artificial intelligence (XAI). This Special Issue aims to highlight the latest advancements and challenges in XAI for computer vision. We welcome theoretical and practical submissions including, but not limited to, the following:

- Novel XAI techniques in computer vision;
- Visualization of XAI model decision processes;
- Model-agnostic and model-specific XAI;
- Case studies on XAI in real-world applications (e.g., agrifood, medical, autonomous driving, surveillance, etc.);
- Benchmarking of XAI;
- Evaluation of XAI;
- Human-centered approaches to XAI;
- Boosting AI performance using XAI.

We look forward to receiving your submissions.

### Guest Editor

Dr. Bas Van der Velden

Wageningen Food Safety Research, Wageningen University & Research, 6708 WB Wageningen, The Netherlands

### Deadline for manuscript submissions

30 November 2025



## Journal of Imaging

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

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### 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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