



Mathematical Models of Visual Perception and Biology with Applications to Images Processing and Computer Vision

Guest Editor:

Prof. Dr. Edoardo Provenzi

IMB Institute de Mathématiques
de Bordeaux UMR 5251,
Université de Bordeaux, 351,
cours de la Libération, 33405
Talence, France

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Message from the Guest Editor

Dear Colleagues,

The comprehension of visual properties, both from a biological (microscopic) and a perceptual (macroscopic) point of view, is an active and fascinating field of research. Historically, the natural application fields of this research have been image processing and computer vision. More recently, the interest regarding human vision modeling has been renewed by the exponential growth of the research about artificial intelligence, where precise theoretical models can be intertwined with deep learning techniques to build artificial devices able to replicate visual features.

With this Special Issue, we want to provide a common setting to gather the most recent discoveries of scientists working in different disciplines related to vision and its applications.

This Special Issue is primarily focused, but not limited to, the following topics:

- Biology and neuroscience of vision;
- Vision-inspired image processing and computer vision;
- Theoretical modeling of visual perception attributes;
- Psycho-physical experiments in vision.





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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 Milan, Italy

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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Journal of Imaging Editorial Office
MDPI, St. Alban-Anlage 66
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