



Techniques and Applications in Face Image Analysis

Guest Editor:

Dr. Mohamed Dahmane

CRIM-Computer Research
Institute of Montreal, Montreal,
QC H3N 1M3, Canada

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Message from the Guest Editor

In face biometric applications, building a robust face recognition system involves several key components. Face detection identifies the face region in an image or video, while face recognition verifies individuals based on extracted facial features. The recognition rate depends on image quality. Although some algorithms address sensor-related aspects like sharpness and illumination, challenges remain with subject-related aspects such as occlusion, head pose, and expression. Assessing face image quality improves system accuracy by rejecting low-quality images.

AI-based approaches have enhanced face recognition systems but also enabled sophisticated attacks. A robust system must include strategies to counter AI-related threats, including presentation attacks, face morphing, and synthetically manipulated images.

This Special Issue of the Journal of Imaging features reports on the robustness of face biometric algorithms, enhancement measures, and protective techniques. Related face analysis techniques that defend against evolving threats are welcome.





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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, Grosspeteranlage 5
4052 Basel, Switzerland

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