Journal of Imaging

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Sensors and Algorithms for Microcirculation Analysis

Guest Editors:

Prof. Dr. Aymeric Histace
ETIS UMR 8051 (CY Paris Cergy University, ENSEA, CNRS), Paris, France

Dr. Camille Simon-Chane
ETIS UMR 8051 (CY Paris Cergy University, ENSEA, CNRS), Paris, France

Deadline for manuscript submissions:
closed (31 October 2021)

Message from the Guest Editors

During the last 10 years, major breakthroughs in machine learning and new imaging technics have been achieved. Both medical and biomedical application domains have widely benefited from these breakthroughs and many new challenges have been opened both at the theoretical and technical levels. Among others, medical image classification, semantic segmentation, new paradigms for non-conventional imaging sensors, and real-time processing for in vivo applications, have attracted significant interest from researchers all over the world. In this context, this Special Issue will focus on microvascular imaging technics and related image analysis challenges. Microvascular networks are of primary importance for the early diagnosis and efficient follow-up for a large diversity of pathologies, including diabetes—the prevalence of which at the international level has become of the utmost importance in developed countries. The scope of this Special Issue includes review and original articles focusing on imagery, instrumentation, computer-vision technics for image analysis (segmentation, characterization, classification, etc.), as well as challenge reports on the latest results.

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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
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/jimaging
jimaging@mdpi.com
𝕏@J_Imaging_MDPI