Special Issue

Computer Vision Algorithms for Biomedical Image Processing

Message from the Guest Editors

Computer vision is a branch of artificial intelligence and computer science that enables computers to acquire a high level of comprehension from digital images or recordings, analogous to how humans perceive and interpret visual information. This Special Issue focuses on computer vision algorithms for biomedical image analysis, encompassing the development of novel methodologies and techniques for processing, analyzing, and enhancing biomedical images, including feature extraction, segmentation, object detection, and restoration. It also includes methods for image registration and alignment, qualitative analysis and measurement of anatomical structures, disease diagnosis, classification, and identification of patterns, abnormalities, and biomarkers. Moreover, it explores computer-aided detection and diagnosis and the integration of deep learning and machine learning techniques, such as CNNs and RNNs, in biomedical image processing. Based on your expertise and previous contributions, we believe that you have the potential to make a valuable contribution to this Special Issue entitled “Computer Vision Algorithms for Biomedical Image Processing.”

Guest Editors

Dr. Roseline Oluwaseun Ogundokun
Dr. Guanqiu Qi
Dr. Valentina De Simone

Deadline for manuscript submissions

closed (15 April 2024)

Algorithms

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 5.4

mdpi.com/si/180788

Algorithms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
algorithms@mdpi.com

mdpi.com/journal/algorithms

Algorithms

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 5.4

mdpi.com/journal/algorithms

MDPI

About the Journal

Message from the Editor-in-Chief

Algorithms are the core of computational mathematics and computer science. The whole area has been considered from different perspectives, which has led to the development of several sub-communities. The aim is to bring together researchers and practitioners from different areas of computational mathematics and computer science and to offer a platform for interdisciplinary applications in different areas of science and technology. In this way, *Algorithms* may become a forum for the exchange of new stimulating ideas between the different sub-communities working in the area of algorithms and their applications and the presentation of high-quality novel algorithmic approaches.

Editor-in-Chief

Prof. Dr. Frank Werner
Faculty of Mathematics, Otto-von-Guericke-University Magdeburg, P.O. Box 4120, D-39016 Magdeburg, Germany

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), Ei Compendex, and other databases.

Journal Rank:

JCR - Q2 (Computer Science, Theory and Methods) / CiteScore - Q1 (Computational Mathematics)