



## Advanced Image and Video Analytics for Biomedical Applications

Guest Editor:

**Dr. Mohd Asyraf Zulkifley**

Department of Electrical,  
Electronic and Systems  
Engineering, Faculty of  
Engineering and Built  
Environment, Universiti  
Kebangsaan Malaysia, Bangi  
43600, Selangor, Malaysia

Deadline for manuscript  
submissions:

**closed (31 December 2023)**

### Message from the Guest Editor

This peer-reviewed Special Issue is open for manuscripts that leverage advanced artificial intelligence techniques that include conventional machine learning and deep learning methods in analyzing images and videos for biomedical applications. There is no restriction to the input modality that includes x-ray, CT scan, MRI, anterior photographed image, fundus image, and many more. We welcome an article that aims to propose and describe state-of-the-art techniques for screening or diagnosing diseases by using an intelligent system. Furthermore, the manuscript can cover various submodules of automated screening and diagnosing systems that include semantic segmentation, data augmentation, advanced pre-processing methods, image normalization techniques, disease classification, symptom regression, disease severity level prediction, and others. Moreover, we also welcome any review on the state-of-the-art screening and diagnosing technology of any disease, especially on advanced deep learning-based topics.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Andreas Kjaer

Department of Clinical  
Physiology, Nuclear Medicine &  
PET National University Hospital,  
Rigshospitalet, University of  
Copenhagen, Blegdamsvej 9, DK-  
2100 Copenhagen, Denmark

## Message from the Editor-in-Chief

You are cordially invited to submit research articles, short communications, comprehensive reviews, case reports or interesting images for consideration and publication in *Diagnostics* (ISSN 2075-4418). *Diagnostics* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Medicine, General and Internal) / CiteScore - Q2 (Internal Medicine)

## Contact Us

---

*Diagnostics* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/diagnostics](http://mdpi.com/journal/diagnostics)  
[diagnostics@mdpi.com](mailto:diagnostics@mdpi.com)  
[X@diagnostic\\_mdpi](https://twitter.com/diagnostic_mdpi)