



healthcare



an Open Access Journal by MDPI

AI-Empowered Lung Disease Classification and Detection: Advances and Challenges

Guest Editor:

Dr. Sherief Hashima

Computational learning theory
team, RIKEN-Advanced
Intelligence Center, Fukuoka 819-
0395 Japan

Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editor

Lung diseases, such as lung cancer, COVID-19, chronic obstructive pulmonary disease (COPD), and pneumonia, are among the leading causes of death worldwide. Early detection and accurate classification of lung diseases are crucial for timely and effective treatment. Artificial intelligence (AI) has shown great potential in the field of medical imaging and diagnostics, particularly in the detection and classification of lung diseases. However, there are still many challenges that need to be addressed to fully realize the potential of AI in this field. Hence, this Special Issue aims to provide a comprehensive overview of the current state of the art in AI-empowered lung disease classification and detection and to discuss the challenges and limitations in the field. By bringing together experts from various fields, including computer science, medical imaging, and medicine, we hope to foster new collaborations and accelerate the development of AI-based diagnostic tools for lung diseases.



mdpi.com/si/159560

Special Issue



healthcare



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Rahman Shiri

Finnish Institute of Occupational
Health, FI-00032 Työterveyslaitos,
Finland

Message from the Editor-in-Chief

Healthcare is an international, scientific, peer-reviewed, open access journal on health care systems, industry, technology, policy, and regulation, and is published semimonthly online by MDPI. Ocular Wellness & Nutrition Society (OWNS) is affiliated with Healthcare and its members receive discounts on article processing charges.

Author Benefits

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

High Visibility: indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [PubMed](#), [PMC](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Health Policy & Services*) / CiteScore - Q2 (*Leadership and Management*)

Contact Us

Healthcare Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/healthcare
healthcare@mdpi.com
[X@HealthcareMDPI_](#)