

Special Issue

Artificial Intelligence and Machine Learning Applications for Developing the Diagnosis of COVID-19

Message from the Guest Editor

The design of computational medical diagnosis and prognosis models using state-of-the-art artificial intelligence and machine learning models is a challenging research field, especially in the context of COVID-19 as the new variants emerge day by day. This Special Edition will focus on new approaches which cater to this field of research. The prognosis model should be updated with the most challenging datasets. Data pre-processing, data security, data unbalancing, and big data handling are of significant value in this regard. We expect a broad range of research ideas, including modern new approaches such as statistical machine learning, unsupervised model design, explainable artificial intelligence (XAI), representation learning, reinforcement learning, etc.

Guest Editor

Dr. Somenath Chakraborty

Department of Computer Science and Information Systems, Leonard C. Nelson College of Engineering and Sciences, West Virginia University Institute of Technology, Beckley, WV, USA

Deadline for manuscript submissions

closed (15 June 2024)



COVID

an Open Access Journal
by MDPI

Impact Factor 1.0
CiteScore 2.0



mdpi.com/si/151397

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

[mdpi.com/journal/
covid](https://mdpi.com/journal/covid)





COVID

an Open Access Journal
by MDPI

Impact Factor 1.0
CiteScore 2.0



[mdpi.com/journal/
covid](https://mdpi.com/journal/covid)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *COVID*. *COVID* is published in open access format—research articles, reviews and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. With the efforts of our professional team and the great potential of *COVID* topics, the impact factor of this journal will dramatically increase in the coming years. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giuseppe Novelli

Department of Biomedicine & Prevention, Genetics Section, University of Rome Tor Vergata, 00133 Rome, Italy

Author Benefits

Open Access:

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

High Visibility:

indexed within ESCI (Web of Science), Scopus, CAPus / SciFinder, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).