# **Special Issue**

# Deep Learning: AI Steps Up in Battle against COVID-19

# Message from the Guest Editors

In the advent of COVID-19 epidemic since December 2019, health professionals, policy makers and governments have been struggling to make critical decisions under high uncertainty. The fast and accurate detection of the COVID-19 infection is essential to identify, make better decisions and ensure treatment for the patients which will help save their lives. In addition, uncertainties are the largest obstacle to obtain an accurate approach for forecasting the future behaviours of the epidemic. Over the last decades, numerous machine learning including deep learning algorithms have been developed for dealing with various healthrelated problems. Given the proliferation of such approaches, it is important to have a thorough understanding of their value, usability and applicability in the fight against COVID -19 to minimize the loss of human lives, societal costs and economic losses caused by this infectious disease. This Special Issue aims to gather a selection of papers presenting original and innovative contributions in the field of deep learning and other machine learning approaches for detecting, assessing and predicting the outbreak of COVID-19 virus.

# **Guest Editors**

Dr. Santoso Wibowo

School of Engineering and Technology, Central Queensland University, Melbourne, QLD 4701, Australia

Dr. A. B.M.Shawkat Ali

School of Information and Communication Technology, Central Queensland University, Rockhampton, Australia

# Deadline for manuscript submissions

closed (31 May 2021)



# International Journal of Environmental Research and Public Health

an Open Access Journal by MDPI

CiteScore 8.5
Indexed in PubMed



mdpi.com/si/47403

International Journal of Environmental Research and Public Health Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijerph@mdpi.com

mdpi.com/journal/ ijerph





# International Journal of Environmental Research and Public Health

an Open Access Journal by MDPI

CiteScore 8.5
Indexed in PubMed





# **About the Journal**

# Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers.

Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

*IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

### Editor-in-Chief

Prof. Dr. Paul B. Tchounwou

RCMI Center for Urban Health Disparities Research and Innovation, Richard N. Dixon Research Center, Morgan State University, Baltimore, MD 21251, USA

### **Author Benefits**

### Open Access:

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

## **High Visibility:**

indexed within Scopus, PubMed, MEDLINE, PMC, Embase, GEOBASE, CAPlus / SciFinder, and other databases.

#### Journal Rank:

CiteScore - Q1 (Public Health, Environmental and Occupational Health)