



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

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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 health-related 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.





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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for 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, open access journal.

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