



The Role of Data Science, and Computer Vision in Public Health

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Message from the Guest Editors

The use of massive amounts of data has become critical in the public health sector. We have seen several cases throughout this COVID-19 outbreak. We have witnessed significant advancements in cancer detection, COVID x-ray processing, brain signal analysis, and stress analysis using computer vision and machine learning. As such, we want to focus on tackling challenges in the public health sector through the use of signal/image processing, machine learning, and data science in this Special Issue. The main topics of this Special Issue include but are not limited to the following: Information fusion and knowledge transfer in biomedical and healthcare applications; Biomedical image processing for health care system enhancement; Biomedical signal processing, environmental data processing; Imaging sensing tools, technologies, and applications in biomedical research; Medical image compression; Drug discovery, patient safety, and clinical risk management; Cancer discovery; COVID-19 analysis, and prediction; Effects of COVID-19 vaccine on day-to-day life; Brain signal analysis for health state estimation; Sleep analysis; Federated learning for biomedical and healthcare data.





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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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