# Application of Computational and Digital Epidemiology in Public Health

Guest Editor:

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## Message from the Guest Editor

We have entered a new and exciting era for epidemiology and public health. Artificial intelligence, smart mobile devices, sensors, and advanced modeling methods are examples of new tools available to study and address complex public health issues. Machine learning methodologies, for example, are used to detect disease patterns in health, demographic and social factors data. Smartphones are used for self-assessment of disease symptoms and contact tracing, and intelligent sensors are used for real-time detection and identification of viruses. This Special Issue of the International Journal of Environmental Research and Public Health (IJERPH) focuses on cutting-edge technological advancements in computational and digital epidemiology in public health. Topics include practical applications in public health decision making, planning, and response to the global SARS-CoV-2 pandemic with relevance for future public health crises. This Special Issue will also report on ethical considerations to inform future policy decisions.

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**Special** Issue

## Editor-in-Chief

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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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