Current Advances in Machine Learning and Biostatistics Approaches in Public Health and Epidemiology

Guest Editor:

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Message from the Guest Editor

Biostatistics/machine learning and big data have intersected in the field of epidemiology and public health. In the past decade, the use of biostatistical and machine learning approaches has contributed significantly to addressing global health issues and allowed considerable progress. We invite papers addressing a variety of topics (not only the use of advanced biostatistical topics, but also epidemiological and public health applications of cutting-edge methods such as deep learning) for the Special Issue o f *International Journal of Environmental Research and Public Health* (*IJERPH*), especially those combining advanced biostatistics and machine learning methods with a practical focus on providing solutions to globally important issues such as the COVID-19 pandemic, noncommunicable diseases, global warming, etc. We expect that work featured in this Special Issue will differ from that in Machine Learning in Healthcare and Bioinformatics by focusing on data and algorithms related to the public health and epidemiological conditions that are strongly associated with our health, including lifestyle, policy, socioeconomic, psychiatric, behavioral, and environmental factors.

Special Issue

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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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