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Investigating Traffic Emission and Pollution with Big Data

Guest Editor:

Prof. Dr. Feng Lu
State Key Laboratory of Resources and Environmental Information System, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing 100101, China

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Message from the Guest Editor

The aim of this Special Issue is to publish original researches or review articles that focus on state-of-the-art big data technologies used to investige environmental pollution caused by traffic activities. Traffic emissions contribute a large part of overall air quality and soil environment problems. It will further deteriorate living environment and result in public health risks. With the rapid development of sensor networks, big data acquisition, and analysis technologies, many novel researches to model and forecast traffic emissions in a fine-grained spatio-temporal resolution have emerged over the years. Traffic emissions and pollutions are greatly influenced by economic and social situations. The complexity of social systems and human mobility, as well as the chemical reaction of emissions, require more cross-disciplinary approaches, in order to improve the accuracy and robustness of traffic emissions. In particular, we are interested in studies that involve the integration of GIS, remotely sensed imageries, crowd-sourced big data, traffic emission and diffusion models, spatiao-temporal data mining, and machine learning technologies.

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Editor-in-Chief

Prof. Dr. Paul B. Tchounwou
RCMI Center for Urban Health Disparities Research and Innovation, Richard Dixon Research Center, Morgan State University, 1700 E. Cold Spring Lane, Baltimore, MD 21251, USA

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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International Journal of Environmental Research and Public Health Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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