Air Quality and Health Predictions

Guest Editor:

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Deadline for manuscript submissions:
closed (31 July 2019)

Message from the Guest Editor

Dear Colleagues,

Exposure to ambient air pollution is associated with a wide array of adverse health outcomes: From chronic bronchitis to myocardial infarctions, from low birth weight to premature mortality. Studies suggest that air pollution is one of the largest environmental health risks and a leading factor for burden of disease.

This Special Issue focuses on the state-of-the-science in the prediction of air quality, exposure, and health impacts, including:

- Air quality model development and applications geared towards generating high resolution pollutant concentration fields;
- Novel uses of satellite observations in predicting ground-level concentrations;
- Field studies using low-cost sensors to build dense air pollutant observation networks;
- Data fusion methods that bring together modelled and observed data to take advantage of their best characteristics;
- Comparative evaluations of different approaches to estimating exposures and predicting health impacts;
- Short and medium range forecasts of air quality, exposures, and burdens of disease;
- Wildfire and prescribed fire smoke impacts;
- Health impact assessments based on novel approaches to predicting air quality.

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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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