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Application of Machine Learning in Air Pollution

Guest Editor:

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Deadline for manuscript submissions:
closed (15 November 2020)

Message from the Guest Editor

Dear Colleagues,

The air pollution problem has emerged as a global problem beyond the problems of major cities. The OECD warns that urban air pollution will account for the largest proportion of deaths in the future, not water scarcity or poor sanitation. In particular, the results of the WHO survey that 7 million people die early in the world due to fine dust show that the health of citizens is threatened by air pollution. Therefore, we need to make efforts to solve the air pollution problem together across national and urban boundaries. Machine learning is a field of artificial intelligence (AI) that automates model creation for data analysis so that software learns and finds patterns based on data. In the field of air pollution, this shows the possibility of research expansion. This Special Issue is intended to investigate applications and studies using a variety of machine learning approaches, including deep learning in air pollution. For this Special Issue, we invite submissions that closely interlink air pollution with machine learning, and how machine learning can help to achieve air pollution research goals.

Prof. HwaMin Lee
Guest Editor

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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