



Machine Learning in Air Pollution

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Message from the Guest Editors

Dear Colleagues,

Air pollution has emerged as a global problem beyond those of major cities. 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. With the development of new technologies, including deep learning, various machine learning algorithms are being developed that can be applied to big data analysis faster and faster by repeating complex calculations. In the field of air pollution, artificial intelligence has the potential for expansion to a variety of research areas. This Special Issue intends to publish papers describing methods and studies using a variety of machine learning techniques, including deep learning, in air pollution. For this Special Issue, we invite submissions that closely interlink air pollution with machine learning, and which illustrate how machine learning can help to achieve air pollution research goals.





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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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