Advancements in Air Quality Modeling through Machine Learning Coupling

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Guest Editors

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This special issue focuses on integrating machine learning techniques with air quality models to enhance accuracy, efficiency, and predictive capabilities. We invite leading researchers in environmental engineering, data science, and machine learning to explore innovative approaches, methodologies, and case studies. Contribute to shaping the future of air quality assessments!

Topics of Interest:

- Development of machine learning algorithms for air quality modeling
- Integration of satellite data and air quality models using machine learning
- Feature selection and dimensionality reduction techniques for air quality modeling
- Real-time air quality prediction using machine learning models
- Uncertainty quantification and sensitivity analysis in coupled models
- Application of deep learning and neural networks in air quality assessment
- Hybrid modeling approaches combining physical models with machine learning
- Case studies demonstrating the effectiveness of coupled models

We encourage researchers and experts in the field to seize this opportunity to showcase their expertise and contribute to the advancement of air quality modeling. Submit your cutting-edge research and join us in shaping the future of this critical area of study.

Submit your Manuscript

Submission Deadline: October 31, 2023

Keywords: Air quality, atmospheric dispersion model, machine learning model, coupling, hybrid modeling, combine machine learning and air quality data.

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