## Special Issue

# Recent Advances in Air Quality Modeling, Forecasting and Data Assimilation

#### Message from the Guest Editors

Air quality prediction using numerical models exhibits large forecast errors with systematic model biases. There are major uncertainties in the representations of meteorological and chemical processes in models along with inaccurate anthropogenic emissions and initial and boundary conditions used for model simulations. Recent advances in data assimilation techniques, which effectively imbed observations into numerical model predictions, provide unprecedented opportunities to significantly improve forecast capability. In particular, observations from geostationary satellites. as well as polar-orbiting satellites cover wide areas and fill the spatial gap in the existing ground-based observation networks. This Special Issue proposes to document recent advances and improvements in air quality modeling and forecasting techniques and the development of aerosol data assimilation methods for utilizing surface and satellite observations for gases and aerosols.

#### **Guest Editors**

Prof. Myong-In Lee

Dr. Daisuke Goto

Dr. Dan Chen

#### Deadline for manuscript submissions

closed (20 February 2023)



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Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

mdpi.com/journal/remotesensing





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#### Message from the Editor-in-Chief

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#### Editor-in-Chief

#### Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

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