



## Multisource Remote Sensing Data Fusion and Assimilation in Atmospheric Observations

Guest Editors:

**Dr. Jianhui Xu**

Guangzhou Institute of  
Geography, Guangdong  
Academy of Sciences,  
Guangzhou 510070, China

**Dr. Hong Shu**

State Key Laboratory of  
Information Engineering in  
Surveying, Mapping and Remote  
Sensing, Wuhan University,  
Wuhan 430079, China

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### Message from the Guest Editors

Dear Colleagues,

This Special Issue mainly explores “advanced” or “novel” data fusion and data assimilation techniques for atmospheric observations concerning air pollution, air temperature, precipitation, wind, etc. The availability of multi-resolution remote sensing data has promoted the development of different data fusion and assimilation. The aim of this issue is to collect new ideas on data fusion, data assimilation, machine learning, geostatistics, and quality assessment. The authors will be able to express their creativity without restrictions and ensure the scientific rigor of research. This Special Issue is, therefore, intended to strongly encourage creative endeavors in theory and practice. We are looking for techniques that may bring challenges and lead to breakthroughs, for example, the new methods in the initial experimental stage that have made basic advancements and potentially contributed to a paradigm shift. Recent developments, applications, and evaluations of remote sensing and observation techniques for atmospheric observations are preferred.





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## Editor-in-Chief

### **Prof. Dr. Ilias Kavouras**

Environmental, Occupational,  
and Geospatial Health Sciences,  
CUNY School of Public Health,  
New York, NY 10027, USA

## 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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Atmosphere Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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