Special Issue

Geospatial Analytics for Healthy Cities: Exploring Air Pollution and Socio-Spatial Inequality in Urban Environments

Message from the Guest Editors

We invite innovative research that leverages geospatial analytics to investigate the interplay between air pollution exposure, urban health outcomes, and socio-spatial inequality. Example topics include, but are not limited to:

- GeoAI for exploring air pollution mapping and disparities;
- Mobility-based exposure modeling and dynamic air pollution risk assessment;
- Spatial epidemiology of pollution-linked diseases in vulnerable populations;
- Green infrastructure planning for equitable air quality improvement;
- Urban mobility transitions and health co-benefits;
- Policy simulations for reducing air pollution injustice;
- Coupled dynamics of urbanization, air quality, and public health;
- Low-cost sensor networks for community-driven air quality monitoring;
- Climate resilience strategies targeting pollution-health inequities;
- Remote sensing of urban heat islands and pollution synergies;
- Spatial optimization of healthcare accessibility in polluted areas.

Guest Editors

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About the Journal

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!

Editor-in-Chief

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