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The Future of Air Quality Monitoring

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Deadline for manuscript submissions:
closed (15 March 2021)

Message from the Guest Editors

Dear Colleagues,

The emergence of low-cost electronics and sensors has favored the deployment of large sensor networks in cities, and has allowed citizens to start monitoring air quality by themselves. The combination of ubiquitous sensor technologies and citizen science opens up the opportunity to monitor air quality at spatial resolutions and locations not possible with traditional monitoring systems.

This issue welcomes papers on environmental intelligence, affordable sensor design and deployment, artificial intelligence techniques, citizen science, data assimilation, and other novel technologies, tools, and methods with a focus on improving air monitoring, increasing environmental awareness, and/or facilitating knowledge-based policy-making. Overall, developments towards future air quality monitoring methods may lead to a paradigm shift that engages a much broader part of the environmental monitoring spectrum than today, leading to new “soft” and “hard” services and products.

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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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