Special Issue

Next Generation Monitoring of Urban Air Pollution and Smart City Applications

Message from the Guest Editors

Emerging air monitoring applications, based on next generation sensors (sometimes referred to as low cost sensors), have become increasingly popular for citizen science, evidence-based policy formulation, and public health protection, in many types of micro environmental monitoring to meet air-quality information needs. The technologies include numerous types of sensors and system configurations and are evolving quickly. There are considerable challenges to these sensor-based systems that are not often appreciated by users. Understanding the limitations and capabilities of the technology is key to ensure data of good quality are reported. This Special Issue will focus on enhancing our understanding of the technology, hardware innovation, data communication, system integration and evaluation and development data processing/corrections using algorithms novel applications in solving air pollution problems. Proper calibration techniques are necessary, both in controlled laboratory and field applications of sensors and systems will be given special attention.

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Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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