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Wireless Sensor Networks for Environmental Monitoring

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Message from the Guest Editors

Environmental monitoring is fundamental to understand our ecosystem, to prevent adverse effects on human health and environment, and as a tool to evaluate the effectiveness of regulations. Recent advances in technology, instrumentation, and procedures have pushed forward laboratory capabilities in testing and analyzing soil, water, gas, and biota specimens and have created new opportunities for real-time monitoring through, for example, distributed sensor networks or wireless sensor networks. These architectures are widely used in environmental monitoring because they offer many important benefits, such as real time access to data, covering wide areas, long term monitoring and system scalability.

This Special Issue aims to survey and discuss the state of the art, difficulties, innovations, and improvements on environmental data acquisition, monitoring, analysis, and risk assessment and management. The observed trends in the pollution of soil, air, and water, the global warming and the increased awareness of environmental themes urge scientists to work on effective methods to be able to detect and react to environmental parameter changes in a timely and authoritative manner.



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Special Issue



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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