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IoT Sensor Networks for Environment Monitoring: From Sensor to Cloud

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Message from the Guest Editors

Internet of Things is a major contributor to digital transformation of our society. In foreseeable future, the objects of everyday life will be equipped with microcontrollers, transceivers for digital communication, and suitable protocol stacks that will enable them to communicate with one another and users. The data collected can be used to protect environment and make cities environment friendly, but their construction and operation at a very large scale has a considerable cost in terms of energy and natural resources consumption. Reducing the ecological impact of environmental monitoring, sensor design, manufacturing, deployment and operation is critical, as well as data treatment chain all the way from the field to users.

This Special Issue calls for articles about developments and indoor and outdoor applications of Wireless Sensor Networks to monitor the environment, including data processing chain from sensor to cloud. It aims to also address innovative approaches to improve data quality using edge computing or smart sensors, to take advantage of future internet infrastructures (5G), to increase sensor autonomy, and generally to reduce IoT's ecological impact.



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Special Issue



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Message from the Editor-in-Chief

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