sensors

an Open Access Journal by MDPI

IMPACT FACTOR 3.9

Indexed in: PubMed

CITESCORE 6.8

IoT-Based Sensing Systems for Urban Air Quality Forecasting

Guest Editor:

Prof. Dr. David J. Lary
Hanson Center for Space Sciences, University of Texas at Dallas, 800 W. Campbell Rd, Richardson, TX 75080, USA

Deadline for manuscript submissions:
30 September 2024

Message from the Guest Editor

This Special Issue focuses on how scientific, societal, and public health advancements can be facilitated using diverse IoT systems in dense urban environments (outdoors and indoors), on autonomous robotic systems, and in wearable IoT devices. These IoT devices can be enhanced by machine learning, e.g., for sensor calibration, and provide a range of data products and/or the development of advanced forecasting methods. There is a natural synergy of data from IoT sensors with operational forecasting and data assimilation systems. There are many public health benefits of precise, localized air quality information facilitated by IoT devices and/or forecasts, especially for those with health vulnerabilities.

There is significant value in exploring methodologies for assessing IoT data quality and uncertainty, studying cost-effective sensor calibration techniques, characterizing the optimum spatial and temporal scales required to capture the natural variability of micro-environments, and promoting transparency and reproducibility through open source approaches, open data, open data standards, and open-design sensor systems.

sensors

IMPACT FACTOR 3.9 | Indexed in: PubMed | CITESCORE 6.8

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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.

Author Benefits

Open Access : free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
𝕏@Sensors_MDPI