Special Issue

Geo-Distributed Big Data Analytics in Sensor Networks

Message from the Guest Editors

The rising availability of geodistributed data streams from sensor networks presents great opportunities for the adoption of data analytics to extract valuable knowledge in a variety of real-world domains and applications. However, this type of data presents multiple challenges, including: i) missing values; ii) outliers and anomalies; iii) temporal and spatial correlation and autocorrelation phenomena; iv) different (and asynchronous) time granularities. Specifically, the spatial proximity of geodistributed nodes may require the adoption of specific techniques (e.g., feature extraction and embedding methods, graph-based modeling) to leverage the spatial autocorrelation induced by their proximity and to obtain high-quality models, for both descriptive and predictive tasks. Finally, data generated in sensor networks present a time-evolving nature, which requires methods and models that are capable of detecting and handling concept drift phenomena, and to dynamically adapt to changes in the observed data distribution. This Special Issue will publish original research, reviews, and applications of methods for Geo-Distributed Big Data Analytics in Sensor Networks.

Guest Editors

Dr. Gianvito Pio

Dr. Roberto Corizzo

Prof. Michelangelo Ceci

Deadline for manuscript submissions

closed (28 February 2022)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/61547

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/journal/sensors

MDPI

About the Journal

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.

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

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 and Instrumentation) / CiteScore - Q1 (Instrumentation)