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Geo-Distributed Big Data Analytics in Sensor Networks

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Message from the Guest Editors

Dear Colleagues,

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.



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Special Issue



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Message from the Editor-in-Chief

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