DOCS’2022-Special Session on Data Stream Analysis

In many applications of information systems, a huge amount of data may be generated sequentially over time, which are called data streams. Since the working conditions or environment can change over time, the newly arrived data may exhibit a different distribution from the previous ones, which is referred to as concept drift. Thus, how to provide more reliable data-driven predictions and decision facilities in an ever-changing and big data environment has become a crucial challenge. Among the key issues include concept drift detection (whether a drift occurs), understanding (where, when, and how a drift occurs), and adaptation (to actively or passively update models). This special session aims at reporting the progress in the latest methodologies, efficient implementations, and real-world applications of data stream analysis techniques.

**Topics**

Topic of interest include but are not limited to:

* Data stream classification
* Data stream regression
* Active learning for streaming data
* Imbalance learning for streaming data
* Clustering for streaming data
* Multi-drift and multi-stream learning
* Transfer learning for streaming data
* Ensemble methods for stream learning
* Experimental setup and evaluation methods for stream learning
* Stream learning methods for real-world applications

**Important Dates**

Paper submission: February 15, 2022

Notification of acceptance: March 15, 2022

Camera-ready copy and author registration: April 15, 2022

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