Workshop on Novel Data Stream Pattern Mining Techniques (StreamKDD)

held in conjunction with the 16th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD-2010), July 25-28, 2010 in Washington, DC.

Workshop Description

Data stream mining gained in importance over the last years because it is indispensable for many real applications such as prediction and evolution of weather phenomena; security and anomaly detection in networks; evaluating satellite data; and mining health monitoring streams. Stream mining algorithms must take account of the unique properties of stream data: infinite data, temporal ordering, concept drifts and shifts, demand for scalability etc. Research on stream learning seems to be scattered along the many application areas (e.g., sensor data mining, log mining, document stream mining). With this workshop, we attempt to bring together the advances on those complementary areas.

Proceedings will be included in the KDD2010 CD Proceedings and the ACM Digital Library. The best paper will be published by KDD Explorations.

Suggested Topics

Theory
- Clustering and classification on streams
- Probabilistic modeling on dynamic data
- Frequent itemset discovery on streams
- Dealing with concept drift
- Change and novelty detection on streams
- Scalable stream mining algorithms
- Visual analytics on streams

Applications
- Security
- Assisted living
- Patient monitoring
- Traffic monitoring
- Recommendation engines
- Customer lifetime management

Important Dates

Submission date for full papers: **May 4, 2010**
(see http://lyle.smu.edu/IDA/StreamKDD2010 for instructions)
Author notification: May 21, 2010
Submission of camera-ready paper: May 28, 2010
Half-day workshop at ACM SIGKDD conference: July 25, 2010 (afternoon)

Organizers

Margaret H. Dunham, Southern Methodist University, USA
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Program Committee

Sanjay Chawla, University of Sydney, Australia
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