over the Internet. You may also download the source code here.

We demo'd *StreaMon*, the adaptive query processing engine of the STREAM system, at the ACM SIGMOD 2004 Conference. Here was the demonstration proposal.

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●We demo'd the STREAM system and its dynamic visualizer at the. Here was the.

Papers

Overviews and Surveys

The STREAM Group. Stanford Data Stream Management System (latest overview paper)

To appear in a book on data stream management edited by Garofalakis, Gehrke, and Rastogi.

The STREAM Group. STREAM: The Stanford Stream Data Manager (short overview paper)

IEEE Data Engineering Bulletin, Vol 26 No. 1, March 2003

R. Motwani, J. Widom, A. Arasu, B. Babcock, S. Babu, M. Datar, G. Manku, C. Olston, J. Rosenstein, and R. Varma. Query Processing, Resource Management, and Approximation in a Data Stream Management System

In Proc. of the 2003 Conf. on Innovative Data Systems Research (CIDR), January 2003

This paper describes our ongoing work developing the Stanford Stream Data Manager (STREAM), a system for executing continuous queries over multiple continuous data streams. The STREAM system supports a declarative query language, and it copes with high data rates and query workloads by providing approximate answers when resources are limited. This paper describes specific contributions made so far and enumerates our next steps in developing a general-purpose Data Stream Management System.

B. Babcock, S. Babu, M. Datar, R. Motwani, and J. Widom. Models and Issues in Data Stream Systems

Invited paper in Proc. of the 2002 ACM Symp. on Principles of Database Systems (PODS 2002), June 2002

In this overview paper we motivate the need for and research issues arising from a new model of data processing. In this model, data does not take the form of persistent relations, but rather arrives in multiple, continuous, rapid, time-varying data streams. In addition to reviewing past work relevant to data stream systems and current projects in the area, the paper explores topics in stream query languages, new requirements and challenges in query processing, and algorithmic issues.