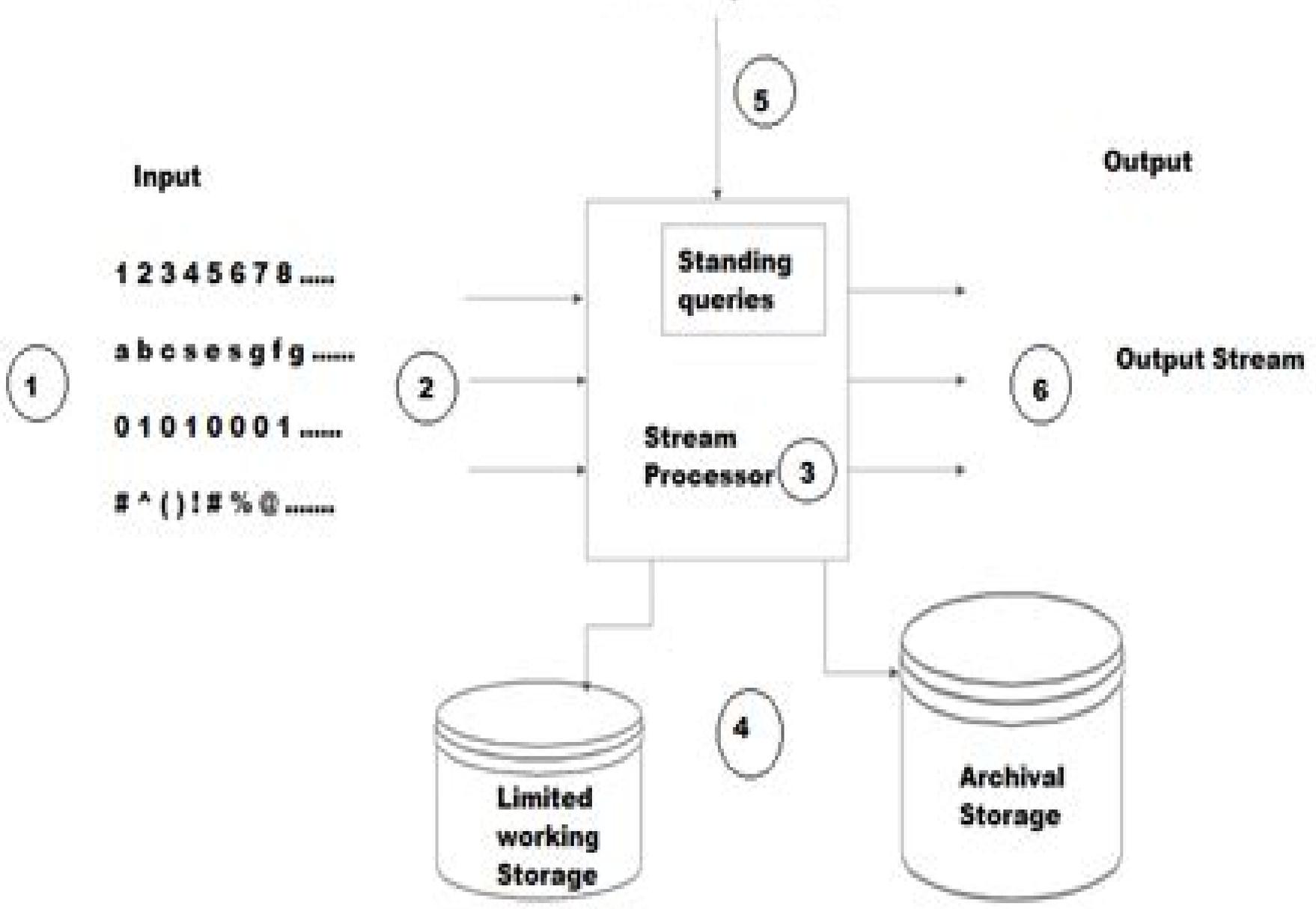


Ad hoc queries



Stream Data Management

Jin-Ying Zhang



Stream Data Management:

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Stream Data Management Nauman Chaudhry, Kevin Shaw, Mahdi Abdelguerfi, 2005-09-19 Researchers in data management have recently recognized the importance of a new class of data intensive applications that requires managing data streams i e data composed of continuous real time sequence of items Streaming applications pose new and

interesting challenges for data management systems Such application domains require queries to be evaluated continuously as opposed to the one time evaluation of a query for traditional applications Streaming data sets grow continuously and queries must be evaluated on such unbounded data sets These as well as other challenges require a major rethink of almost all aspects of traditional database management systems to support streaming applications Stream Data Management comprises eight invited chapters by researchers active in stream data management The collected chapters provide exposition of algorithms languages as well as systems proposed and implemented for managing streaming data Stream Data Management is designed to appeal to researchers or practitioners already involved in stream data management as well as to those starting out in this area This book is also suitable for graduate students in computer science interested in learning about stream data management

Real-Time & Stream Data Management Wolfram Wingerath, Norbert Ritter, Felix Gessert, 2019-01-02 While traditional databases excel at complex queries over historical data they are inherently pull based and therefore ill equipped to push new information to clients Systems for data stream management and processing on the other hand are natively push oriented and thus facilitate reactive behavior However they do not retain data indefinitely and are therefore not able to answer historical queries The book provides an overview over the different push based mechanisms for data retrieval in each system class and the semantic differences between them It also provides a comprehensive overview over the current state of the art in real time databases It first includes an in depth system survey of today's real time databases Firebase Meteor RethinkDB Parse Baqend and others Second the high level classification scheme illustrated above provides a gentle introduction into the system space of data management Abstracting from the extreme system diversity in this field it helps readers build a mental model of the available options

Data Stream Management Lukasz Golab, M. Tamer Ozsu, 2010-06-02 Many applications process high volumes of streaming data among them Internet traffic analysis financial tickers and transaction log mining In general a data stream is an unbounded data set that is produced incrementally over time rather than being available in full before its processing begins In this lecture we give an overview of recent research in stream processing ranging from answering simple queries on high speed streams to loading real time data feeds into a streaming warehouse for off line analysis We will discuss two types of systems for end to end stream processing Data Stream Management Systems DSMSs and Streaming Data Warehouses SDWs A traditional database management system typically processes a stream of ad hoc queries over relatively static data In contrast a DSMS evaluates static long running queries on streaming data making a single pass over the data and using limited working memory In the first part of this lecture we will discuss research problems in DSMSs such as continuous query languages non blocking query operators that continually react to new data and continuous query optimization The second part covers SDWs which combine the real time response of a DSMS by loading new data as soon as they arrive with a data warehouse's ability to manage Terabytes of historical data on secondary storage

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The systems used to process data streams and provide for the needs of stream based applications are Data Stream Management Systems DSMSs This book presents a new paradigm to meet the needs of these applications including a detailed discussion of the techniques proposed It includes important aspects of a QoS driven DSMS Data Stream Management System and introduces applications where a DSMS can be used and discusses needs beyond the stream processing model It also discusses in detail the design and implementation of MavStream This volume is primarily intended as a reference book for researchers and advanced level students in computer science It is also appropriate for practitioners in industry who are interested in developing applications **Database Management and Analysis of Fisheries in Illinois Lakes (F-69-R-10)** ,1997 **Data Management and Computation** National Research Council (U.S.). Space Science Board, 1982 Proceedings of the ... ACM International Workshop on Multimedia Databases ,2003 **Proceedings** ,1994 Very Large Data Bases ,2005 GeoStreams Quinn James Hart, 2006 **VLDB 2006** ,2006 **Data Management** ,1980 **Continuous Queries Over Data Streams** Arvind Arasu, 2006 **Parallel and Distributed Processing and Applications** ,2005 Aquatic Data Analysis ,1987 **ICDT '...** ,2005 **Journal of Database Management** ,2001 **Proceedings of the Twenty-First ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems** ,2002

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