

Data Streams Algorithms And Applications

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I will discuss the emerging area of algorithms for processing data streams and associated applications, as an applied algorithms research agenda. That has its benefits: we can be inspired by any application to study novel problems, and yet be not discouraged by the confines of a particular one. The discussion will be idiosyncratic.

~~Data Streams: Algorithms and Applications~~

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Data Streams: Algorithms and Applications focuses on the algorithmic foundations of data streaming. In the data stream scenario, input arrives very rapidly and there is limited memory to store the input. Algorithms have to work with one or few passes over the data, space less than linear in the input size or time significantly less than the input size.

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The applications for this scenario include IP network traffic analysis, mining text message streams and processing massive data sets in general. Researchers in Theoretical Computer Science, Databases, IP Networking and Computer Systems are working on the data stream challenges.

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The applications for this scenario include IP network traffic analysis, mining text message streams and processing massive data sets in general. Data Streams surveys the emerging area of algorithms for processing data streams and associated applications.

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Generally speaking, streaming algorithms aim to process such data streams while using only a limited amount of memory, significantly smaller than what is needed to store the entire data stream. 1...

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Industry is in synch too, with Data Stream Management Systems (DSMSs) and special hardware to deal with data speeds. Even beyond Computer Science, data stream concerns are emerging in physics, atmospheric science and statistics. Data Streams: Algorithms and Applications focuses on the algorithmic foundations of data streaming. In the data stream scenario, input arrives very rapidly and there is limited memory to store the input.

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The applications for this scenario include IP network traffic analysis, mining text message streams and processing massive data sets in general. Researchers in Theoretical Computer Science, Databases, IP Networking and Computer Systems are working on the data stream challenges. This article is an overview and survey of data stream algorithmics and is an updated version of [173].

~~Data Streams: Algorithms and~~

We study the emerging area of algorithms for processing data streams and associated applications, as an applied algorithms research agenda. We begin with three puzzles. 1.1 Puzzle 1: Finding Missing Numbers Let π be a permutation of $\{1, \dots, n\}$. Further, let π^{-1} be π with one element missing. Paul shows Carolen-1[i] in increasing order i. Carole's

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From Wikipedia: "A streaming algorithm is a method of managing a flow of data by examining arriving items once and then discarding them. The benefit of a streaming algorithm is that it can be used to manage data that is continuously generated and where the total volume is extremely large, even if the volume is too large for memory."

~~Data Streams: Algorithms and Applications~~

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