Engineering Streaming Algorithms

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— Abstract

Streaming algorithms must process a large quantity of small updates quickly to allow queries about the input to be answered from a small summary. Initial work on streaming algorithms laid out theoretical results, and subsequent efforts have involved engineering these for practical use. Informed by experiments, streaming algorithms have been widely implemented and used in practice. This talk will survey this line of work, and identify some lessons learned.

1998 ACM Subject Classification H.2.8 [Database Management] Database Applications, Data mining, F.2.2 [Analysis of Algorithms and Problem Complexity] Nonnumerical Algorithms and Problems

Keywords and phrases Data stream algorithms

Digital Object Identifier 10.4230/LIPIcs.SEA.2017.3

Category Invited Talk