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Embeddings and data stream algorithms.

The topic of this talk is the design of algorithms for *data streams*. Such algorithms can use only a limited storage (much smaller than the size of the input data) and can access the input elements using only a single pass over the data. Data stream algorithms are of interest in several areas, including network traffic analysis and database.

In this talk I will present a survey of applications of low-distortion embeddings to the design of efficient data stream algorithms. (Received August 23, 2005)