From batch to stream processing of massive data.

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Recent years have seen the rapid diffusion of paradigms and systems for processing large datasets, relying on shared-nothing distributed programming paradigms. While first applications manipulating massive datasets were based on batch processing, there is currently a growing interest in processing large-scale data collections in a streaming fashion, still relaying on distribution and parallelism.

This talk will present the basic principles and systems behind large scale data processing, with a first focus on batch processing and a second focus on streaming. The attention will be on paradigms behind mainstream technologies, namely MapReduce Hadoop, Flink and Spark.

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