MSG - Mining Stream Graphs

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**Job description:** The majority of graph mining algorithms assume that the graph is stored in the main memory and it can be accessed in a random-access fashion. However, in many cases graphs are provided as a data stream where one has to process one data element at a time and never see that element again. The idea that allows to build algorithms for this model is to keep a small-size "sketch" that summarizes the data that have been seen in the past. Another successful idea is to use sampling.

The first goal of this project is to study in-depth and implement existing algorithms for mining stream graphs. The second goal is to design new algorithms for novel graph-mining problems.

**Additional information:** Data mining group webpage [http://research.ics.aalto.fi/dmg/](http://research.ics.aalto.fi/dmg/)