

The Collaboration Spotting Graph Visualization tool

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Collaboration Spotting aims at visualizing collaborations retrieved from multi-dimensional dataset. The tool allows a full navigation experience through the different dimensions of the dataset; zooming in this dataset and visual queries are possible.

After a brief introduction to the project, the talk will focus on the challenges to visualize large datasets. From the modelization of the dataset by hypergraphs, the visualization will be tackled: this includes the clustering and layout algorithm. To improve the final rendering different strategies are used using compound graphs and quotient graphs to improve the final rendering. The computational issues will be addressed in the talk of Richard Forster.

Due to the genericity of the tool and the variety of the data handled, measuring the quality of the graphs generated is then a crucial issue to allow better rendering. This is part of the future challenges.