

Visual Parameter Space Analysis via Meta-Clustering

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Topic

Finding parameters and good solutions in the domain of clustering is difficult. Different solutions may be equally valid depending on the questions asked and the different data sets. There exist some quality measures but those do not take the intrinsic meaning of the result into account and may convey that there is a clear answer where there isn't one.

Proposed solution:

Perform Meta-Clustering and let the user explore the different results comparatively via a visualization.

The Tool

Demo

Possible next steps

- ▶ Clustering combination tool
- ▶ Diff-Tool/Multi-Diff-Tool
- ▶ Automatic discovery of representatives within Meta-Clusters
- ▶ Automatic discovery of outliers of Meta-Clusters
- ▶ Scatter plot matrix for MDS plot with automatic dimensionality detection
- ▶ Inclusion of clustering quality metrics for filtering (conflict with project philosophy?)

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