Graphgrams
- Visualization for Clustering

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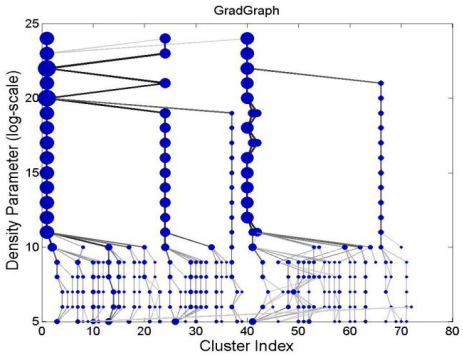
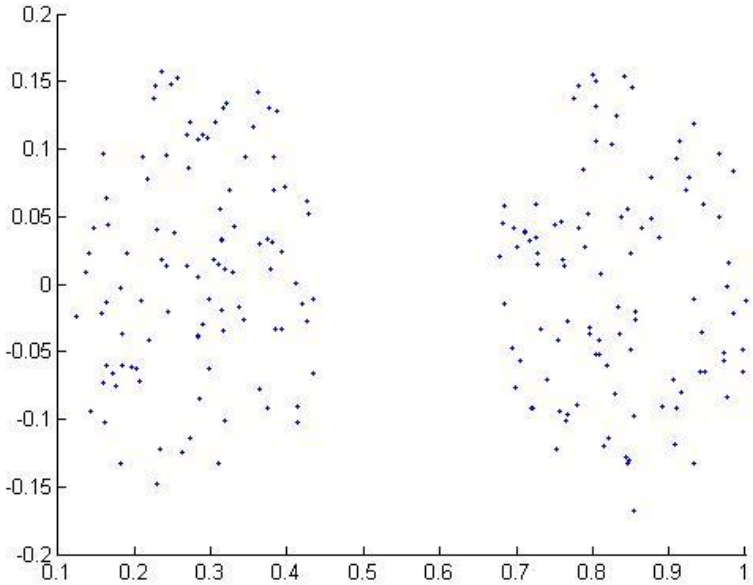
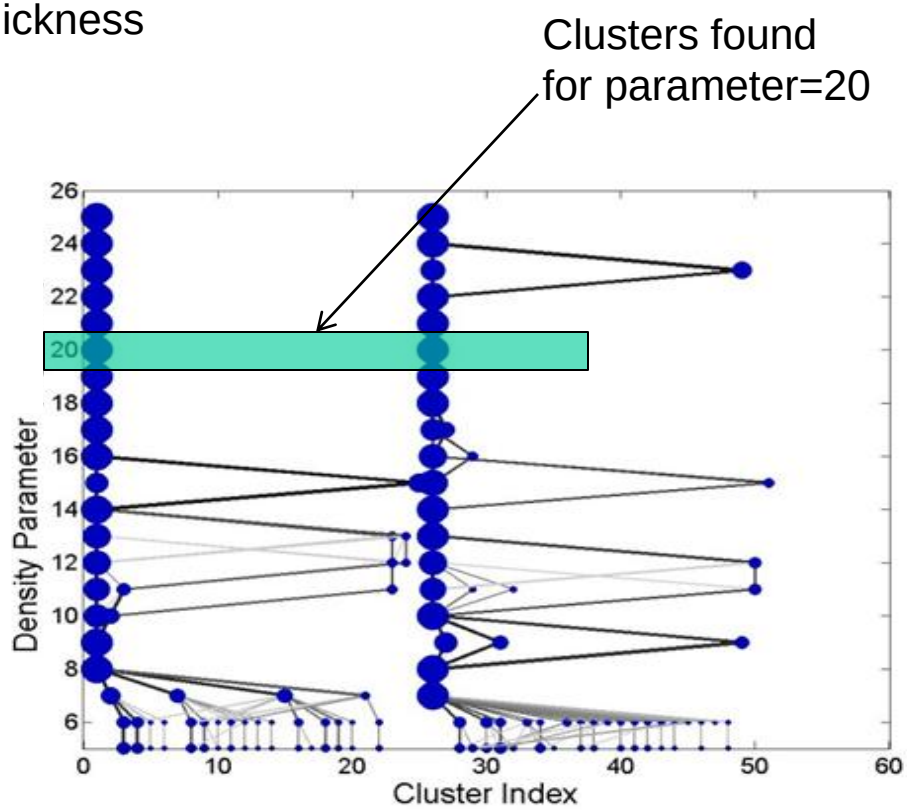
Publication:
Fast parameterless density-based clustering via random projections **,** Schneider et al., CIKM 2013



Graphgrams

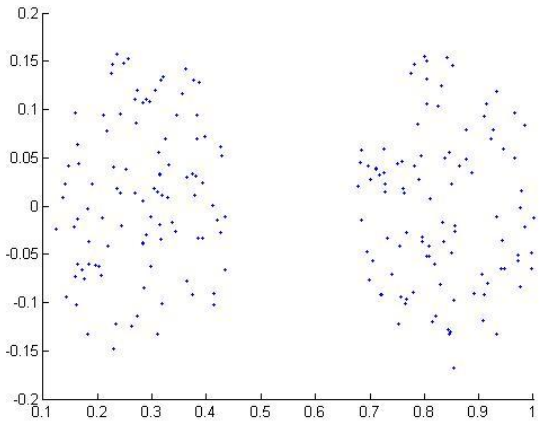
1. Use any algorithm with single (density) parameter
2. Compute clusterings for a sequence of parameter values
   - eg. parameter = 1,2,3…
3. Draw clusters and lines between them
   - Percentage of common points ~ line thickness
   - Cluster size ~ point size

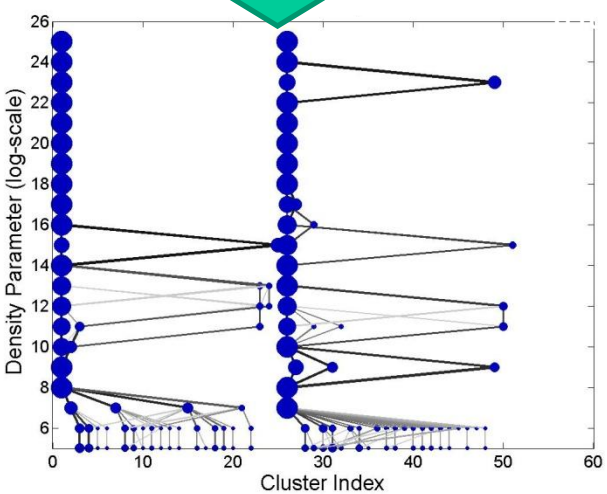




Example

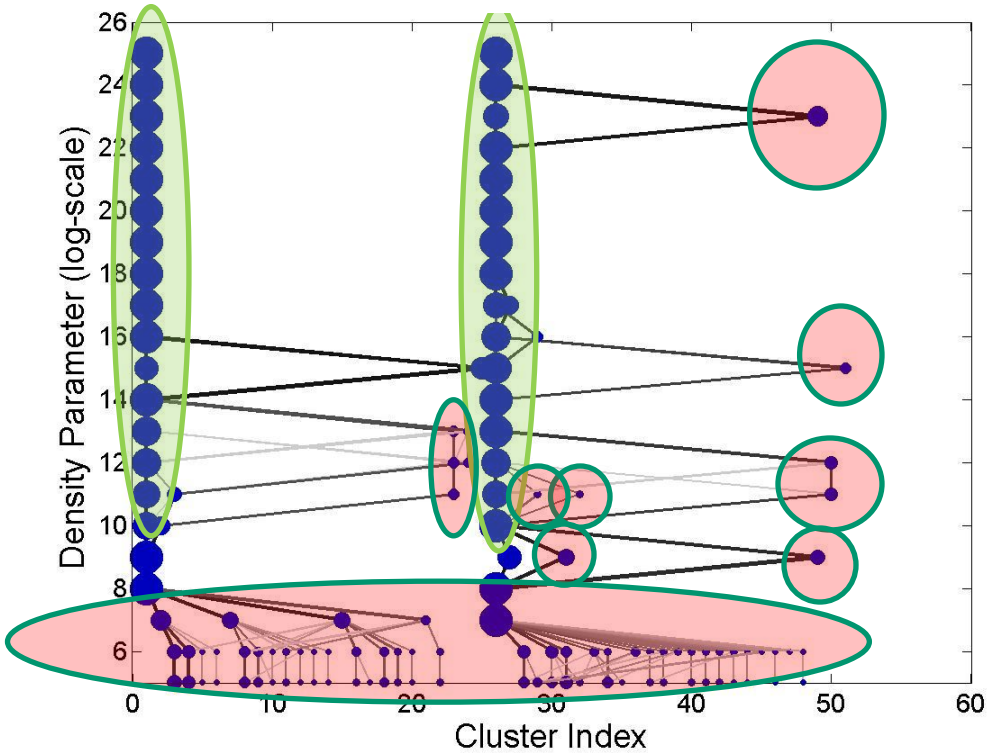
OPTICS and Gradient Based Clustering (GradGraph)



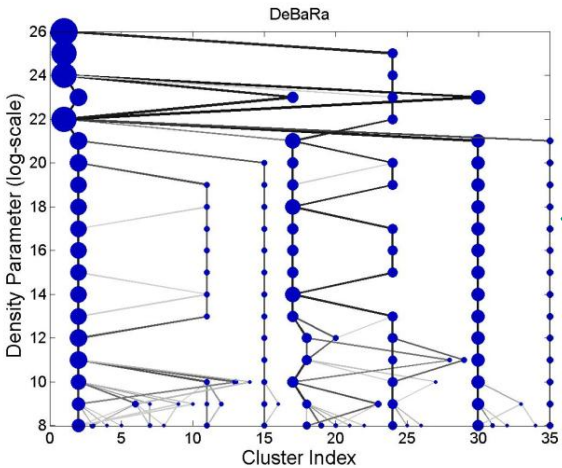


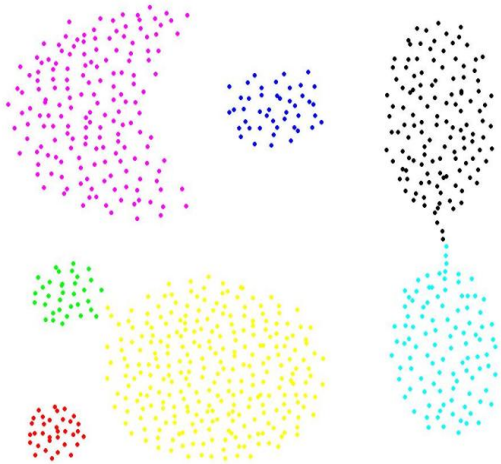
Stable clusters
Same clusters for wide range of different parameters

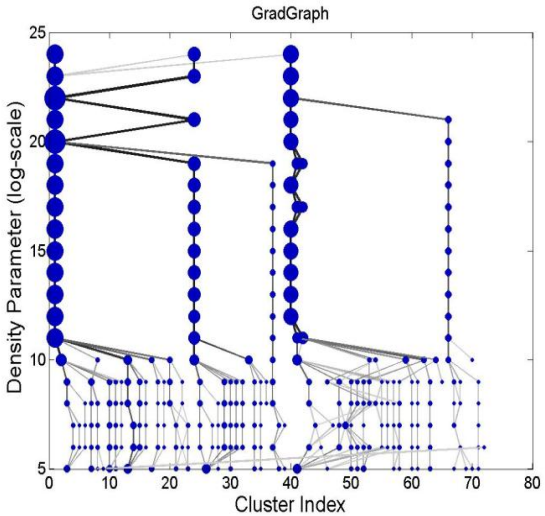
Unstable clusters
Only exist for a few parameters



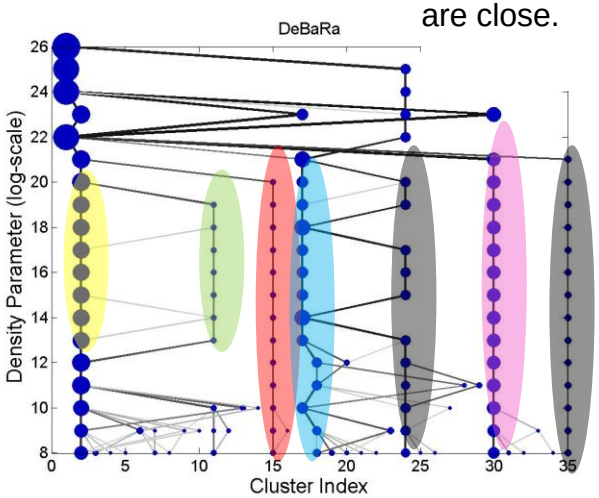
Example with 2 algorithms



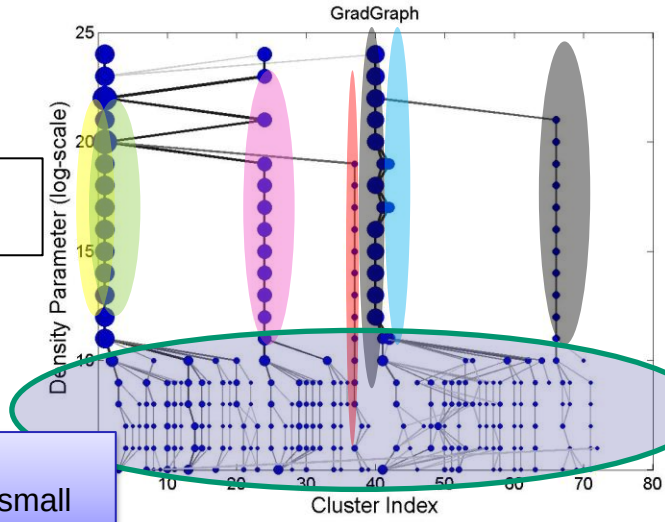




Clusters (,) and (,)
are close.



Cluster should be
split into



(Too) many
clusters for small