

Description

The VisuClust package provides functions to display the result of either disjoint (every observation belongs to one cluster) or fuzzy (for each observation i there is a vector $u[i,c]$ with $c=(1,...,m)$, which states the membership of the i .th observation for the cluster c , where $\sum(u[i,c]) = 1$) clusters.

Disjoint clustering's can be created with known hierarchical methods, if the desired number of clusters m is provided. See [hclust](#) [kmeans](#) from the cluster package.

The basis of the visualization is the method Sammon's Nonlinear Mapping (NLM), which displays all observations in a plane so that the distances in the multivariate space are approximated best. The NLM-results can be indicated by coloring the clusters, drawing lines between similar point pairs, and other features.

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References

Will be in the GIL conference transcript 2012:
Visualisierung von Clustern in multivariaten Daten unter Einsatz von R
Georg Ohmayer, Michael Sieger