

Lab Work 3

- (a) Implement the k-Means and k-Medoids clustering algorithms.
- (b) Compare the performances of the above two clustering algorithms using standard measures such as variance, silhouette coefficient etc. If ground truth is available, you may use extrinsic measures such as BCubed precision and BCubed recall. Use at least 7 real-life clustering datasets.
- (c) Submit the source codes of (a) and a report for (b). You may use your preferred language for implementation and tool/package to prepare the comparison graphs/charts and description of the report. However, you cannot use any built-in clustering algorithms while implementing (a).

Datasets: Download real-life datasets from the following website

UCI Machine Learning Repository

<https://archive.ics.uci.edu/ml/index.php>