1. Ontology alignment

- To define the relations between the terms in different ontologies

Ontology Alignment

An Alignment Framework

Ontology alignment system - SAMBO
Example alignment system
SAMBO – matchers, combination, filter

Example alignment system
SAMBO – suggestion mode

Example alignment system
SAMBO – manual mode

System for evaluation of ontology alignment strategies - KitAMO
Recommendation of alignment strategies

Further reading


Method for similarity-based grouping

2. Evaluation of grouping strategies for biological data

Patrick Lambrix
Linköpings universitet
A toolkit for Evaluating Grouping Algorithms

Selection of test case

Specification of grouping rules

Pairwise grouping

Grouping

Specifications of grouping rules

Pairwise grouping

Grouping
Entropy: average distribution of the data entries in each group among the classes
Purity: average precision of the groups with respect to their best matching classes
Mutual information: correspondence on average between each group and class
F-measure: precision and recall of the classes with respect to their best matching groups on average

Analysis

Comparisons: use of different data sources, grouping algorithms, and classifications, grouping on different attributes, impact of threshold

Further reading