











Compare classification and association rules

- Purpose
- Format
- Quality measure
- · Ruleset / List of rules
- · Exhaustiveness of algorithms

Comparison of classification and association rules

- Purpose
 Classification rules: classification
 - Association rules: exploratory data analysis, descriptive induction
- Format

 - -Ormat

 Both in the format X → Y

 Classification rules: Y is a pair "target variable=class"

 Association rules: both X and Y are itemsets ≅ conjunctions of attribute-
- Association rules: both X and Y are itemsets ≘ conjunctions of attribute-value pairs

 Quality measure
 Classification rules: classification accuracy of the ruleset, precision, rule accuracy, weighted relative accuracy
 Association rules: support, confidence, lift, leverage, conviction
- Ruleset / List of rules

 Classification rules: can be both: unordered sets of rules or ordered list of rules

- Association rules: unordered set of rules
 Exhaustiveness of algorithms
 Classification rules: heuristic algorithms
 Association rules: exhaustive algorithms, guarantee the optimal results

