



LEIC – ALAMEDA 2017/18

Sistemas de Apoio à Decisão

Lab 2 – Mining Association Rules

1. Loading Transactions

- a. Load example and discover the set of frequent itemsets (support \geq 20%).
- b. Load adult and discover the set of rules (support \geq 50%, confidence \geq 90%)

2. Analyze the vote data, discovering all the association rules with 100% of confidence, and support above 10%.

- a. How does the number of discovered rules change with the minimum confidence and support thresholds?
- b. How many rules do you find with lift > 1?
- c. And for conviction > 1?
- d. How useful are the rules selected with the different measures?

3. Analyze the supermarket data and compare the results against the previous ones, according to

- a. The number of discovered rules
- b. The quality and usefulness of the rules
- c. The time required to discover the rules

4. Load the glass data. Since the attributes are numeric, discretize them using both the **equal-width** and **equal-frequency** strategies.

- a. What do you observe when you compare the distributions obtained?
- b. Compare the rules discovered.

R packages

- arules
- dplyr