

## Data Mining: Assignment 3

### Census-Income

**Tasks:** Association Rules Mining

**Assigned:** October 30<sup>th</sup>, 2018  
16 until midnight

**Due:** November 13<sup>th</sup>, 2018

**Points:** 60 points



For this project we will look again at census-income data. The cleaned and preprocessed data set will be used as an input data set for this assignment.

Write a report covering in detail all steps of the project. **The results have to be reproducible using your report.** Carefully describe every assumption and every step in your report. Also mention any program/code that you are using for your analysis.

#### 1. Modeling [20 points]

- 1.1 Create association rules using a minimum support and a minimum confidence of your choice. [10 points]
- 1.2 Create tables/visualization of the rules obtained from 1.1 and provide a short explanation for each table and figure. [10 points]

#### 2. Evaluation [30 points]

- 2.1 Provide 10 most interesting rules. [10 points]
- 2.2 Explain how the rules in 2.1 are interesting. [20 points]

#### 3. Deployment [10 points]

- 3.1 How useful are your results to the stakeholders? [10 points]