



Workshop 01

Lecture: Intelligent Data Analytics (Master course SS 2020)

Introduction to R. Working with vectors.

- a) Create a vector 'a' with the values: 1, 5, 3, 1, 7, 8, 9
- b) Access the first member of the vector 'a' and store it in a variable 'b'
- c) Access the 3rd..5th members of the vector 'a' and store them in the variable 'c'
- d) Copy the vector 'a' to the variable 'd' but exclude the 4th member
- e) Copy the vector 'a' to the variable 'e' but exclude the 3rd...5th members

Plotting, pre-processing and feature extraction.

- a) Read the file 'vehicle_overland.csv' (the R-function ist `read.csv()`) and store the vehicle's speed in the variable 'speed'.
- b) Plot the vehicle speed.
- c) There is one obvious erroneous outlier. Find it and replace it using the last value. You can use the command '`which(...)`' to get the index of the outlier.
- d) Extract the following statistical features: mean value, min, max, range and the standard deviation.