Nonparametric Methods, 1MS020

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1 Goal

The goal of this lecture course is to present methods in statistics which do not require parametric models. Real data sets are studied using the GNU software R. You can download R from the net. See www.r-project.org.

2 Organization

The course will be given in English. All information will be published in the studentportalen.

In the lecture we will step by step go along the the textbook.

Conover: Practical nonparametric statistics, Wiley, ISBN 0-471-16968-7

The methods will be applied on textbook examples, by using the GNU software R. In the lectures the R software will be demonstrated. R- scripts will be available in studentportalen.

15 lectures. Software demonstrations are given during the lectures.

2 lectures repetition - before examination,

3 Examination

3 Obligatory home assignments (Inlupp 1-3), team work is strongly recommended.

home tenta 26/5 (no team work!!!!!)

4 Time table (preliminary)

4.1 Lectures:

Lectures 1,2: Introduction to R, Chapter 3, Tests based on Binomial distribution, Sign tests

Lectures 3,4,5: Chapter 4, Contingency tables

Lectures 6,7,8,9,10,11,12: Chapter 5, Rank methods

Lectures 12,13,14: Chapter 6, Goodness of fit tests

Lectures 15,16: Rest, Repetitions

4.2 Assignments:

Inlupp 1: warming up with R, sign tests, distributed: 23/3 , deadline 13/4

Inlupp 2: contigency tables, rank methods, distributed: 13/4, deadline 27/4

Inlupp 3: rank methods, goodness of fit: 27/4, deadline 20/5

5 Contact

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