Statistics

Offered by: Department of Mathematics and Computer Science
Language: English
Primarily interesting for: Major Data Science
Prerequisites: Data statistics (JBM010)
Contact person: Prof. dr. E. R. van den Heuvel

What is this package about?
Statistical analysis of data is essential to make valid statements on the association of observed variables. For instance,
- Is diabetes related to heart failure?
- What is growth curve of children?
- What is the shelf life of light bulbs?
- Is there a trend in the stock exchange?
- Is the heart rate of females more stable than of males?
To answer these types of questions it is important to model data that would explicitly quantify possible relationships between variables. The coherent package on statistics provides three related areas of statistical analysis that uses statistical models: generalized linear models, survival and reliability models, and time series models. Each of these topics is provided in a 5 ECT course. The courses provide theoretical background but also provide a lot of practice. You will work with the software packages SAS and [R].

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<td>1. Statistical models</td>
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Course descriptions

Statistical models
TBA

Time series
TBA

Survival and reliability analysis
TBA