Statistical Analysis of Reliability and Survival data

Lecture notes

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Course Schedule:

Lecture notes: Available on Toledo.

These notes are based on the books:

- Collett (2015), Modelling Survival data in Medical Research, Third Edition
- Klein and Moeschberger (1997), Survival analysis, Springer-Verlag, New York.

Home-works: During this course, home-works will be given to practice on the material. The solutions of these home works will be discussed in the last lecture.

Exam: The exam consists of two parts:

- A take-home exam which is given at the end of the course and a report should be handed in individually at the given deadline.
- An oral exam during the exam-period on this report and on the course.

Some additional reading:

- Liu (2012), Survival Analysis, models and applications
- Kalbfleisch and Prentice (2002), The Statistical Analysis of Failure Time Data, Wiley, New York.
- Andersen, Borgan, Gill, Keiding (1993), Statistical Models Based on counting Processes, Springer-Verlag, New York.
- Hougaard (2000), Analysis of Multivariate Survival Data, Springer-Verlag, New York.