Wiener Biometrische Sektion
der Internationalen Biometrischen Gesellschaft
Region Österreich – Schweiz

http://www.meduniwien.ac.at/wbs/

Einladung zum

Biometrischen Kolloquium

am Mittwoch, den 8. September 2010 um 14:00 Uhr (s.t.)

in der Informatikbibliothek (Ebene 3, Raum 88.03.806) des Zentrums für Medizinische Statistik, Informatik und Intelligente Systeme der Medizinischen Universität Wien
Spitalgasse 23, 1090 Wien

Vortragender:

Prof. Terry Therneau, PhD
Division of Biomedical Statistics and
Informatics at Mayo Clinic, Rochester, USA

Practical Mixed-Effects Survival Models

Der Vortrag wird auf Englisch gehalten. Wir freuen uns auf zahlreichen Besuch.

Georg Heinze
Präsident

Martin Posch
Sekretär

Practical Mixed-Effects Survival Models

Terry Therneau
Division of Biomedical Statistics and Informatics at Mayo Clinic
Rochester, USA

Although theory papers dominate our journals and promotion, reliable practical computing tools drive statistical practice.

Reliable: They work (no program faults, convergence failure, etc)
Practical: Integrated into a standard statistical system
Cover a sufficient variety of cases
Good output and documentation
Theory: Citable theory for the results
Useful: They give additional insight in the analysis of real data, over and above older methods.

Survival models with random effects, also known as frailty models, have been a subject of much theoretical work over the past 20 years. Software that satisfies the above definition has just begun to emerge, however, i.e., the **coxme** package for R. This talk will focus on the last point above, using examples from clinical trials, familial genetics, and microarrays (gene sets) where a mixed effects model reveals additional structure in the data.