Wiener Biometrische Sektion
der Internationalen Biometrischen Gesellschaft
Region Österreich – Schweiz
http://www.meduniwien.ac.at/wbs/

Einladung zum

Biometrischen Kolloquium

am Dienstag, dem 18. Oktober 2011 um 11:00 Uhr (s.t.)

in der Informatik-Bibliothek (Ebene 3, Raum 88.03.806) des Zentrums für Medizinische Statistik, Informatik und Intelligente Systeme (CeMSIIS) der Medizinischen Universität Wien
Spitalgasse 23, 1090 Wien
(Plan siehe http://www.muw.ac.at/cemsiis/allgemeines/anschrift/)

Vortragender:

Dimitris Rizopoulos
Erasmus University Medical Center, Rotterdam, Niederlande

Joint Models for Longitudinal and Event Time Data, and Dynamic Predictions

Wir freuen uns auf zahlreichen Besuch.

Georg Heinze
Präsident

Gerhard Svolba
Sekretär

Joint Models for Longitudinal and Event Time Data, and Dynamic Predictions

Dimitris Rizopoulos

In longitudinal studies it is often of interest to investigate how a marker that is repeatedly measured over time is associated with a time to an event. This type of research questions has given rise to a rapidly developing field of biostatistics research that deals with the joint modeling of longitudinal and time-to-event data. In this talk we start by introducing this modeling framework and its features, and following we focus on predictions for both the survival and longitudinal outcomes. Time-permitted, we will also refer to time-dependent accuracy measures based on the ROC methodology.

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Selected references:

- Rizopoulos, D. (2011). Dynamic predictions and prospective accuracy in joint models for longitudinal and time-to-event data. *Biometrics* **67**, 819-829.

- Rizopoulos, D. and Ghosh, P. (2011). A Bayesian semiparametric multivariate joint model for multiple longitudinal outcomes a time-to-event. *Statistics in Medicine* **30**, 1366-1380.

- Rizopoulos, D., Verbeke, G. and Molenberghs, G. (2010). Multiple-imputation-based residuals and diagnostic plots for joint models of longitudinal and survival outcomes. *Biometrics* **66**, 20-29.

- Rizopoulos, D. (2010). JM: An R package for the joint modelling of longitudinal and time-to-event data. *Journal of Statistical Software* **35**(9), 1-33.