Wiener Biometrische Sektion
der Internationalen Biometrischen Gesellschaft
Region Österreich – Schweiz

Einladung zum

BIOMETRISCHEN KOLLOQUIUM

Am **Donnerstag, 17. September 2015** um **14:00 Uhr** (s.t.)

im Seminarraum (Ebene 3, Raum 88.03.513) 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:

FLORIAN KLINGLMÜLLER

University of Padua, Department of Statistics

PERMUTATION TESTS FOR ADAPTIVE CLINICAL TRIALS

Wir freuen uns auf zahlreichen Besuch.

Franz König   Stephan Lehr
Präsident   Sekretär

PERMUTATION TESTS FOR ADAPTIVE CLINICAL TRIALS

FLORIAN KLINGLMÜLLER

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Abstract:
Adaptive designs permit to learn from and use information emerging from an ongoing clinical trial in order to perform mid-trial design modifications. For the control of the Type I error rate, however, most currently available adaptive test procedures rely on restrictive assumptions about the distribution of outcome measures and test statistics. In this talk I propose nonparametric tests for confirmatory adaptive designs that extend the conditional error rate approach - a general statistical principle for confirmatory adaptive designs - to permutation and re-randomization tests which require less assumptions about the distribution of observations and test statistics, while providing similar flexibility for interim design modifications as existing adaptive test procedures. Moreover, the proposed methods do not rely on asymptotic properties, which are only satisfied in large samples. Therefore, they are especially suited for clinical trials with small and moderate sample sizes.