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Seminar *Advanced computation in IRT*

Dates: 5-8 November 2007

Final registration date: 22 October 2007

Instructor(s): Dr Jean Paul Fox, Prof. dr Cees Glas

Dates: 5-8 November 2007 (Monday-Thursday)

Location and how to get there: University of Twente, Enschede, the Netherlands

Short description of the course:
The seminar gives an overview of computational aspects of the two main estimation methods in IRT: Bayesian estimation using Marcov chain Monte Carlo (MCMC) and marginal maximum likelihood (MML). Practicals will be in the programming languager R.

Day 1. Principles of Bayesian Esitmation and MCMC, practical MCMC Probit analysis..
Day 2. Bayesian estimation of IRT models, practical MCMC for the 1pl.
Day 3. MML for IRT models. Practical MML for the 1pl.
Day 4. Rejoinder and Generalizations. Practical latent covariance models.

Course format: 4 days, consisting of 4 lectures and 4 practicals

Language: English / Dutch (depending of the participants)

Prerequisites: The IOPS Seminar: *Programming in R* by prof. Han Van der Maas (University of Amsterdam) is recommended but not a necessity.

Literature (books, readers), price Reader, price yet to be established.

Minimum/maximum number of participants: 4 - 10

Certificate: yes

Number of European Credit Points: 2 ECTS

Fees

IOPS PhD students	Free
PhD students appointed as AiO at a university	€ 400 and € 25 registration fees; additional costs for course materials
IOPS staff members, and IOPS alumni	€ 400 and € 25 registration fees; additional costs for course mate
Other participants	€ 1200 and € 25 registration fees; additional costs for course materials

Information and registration

Lidy van Everdingen (IOPS course administration)
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Cancellation

No refund is made for cancellations after the final registration date of the seminar.