INTRODUCTORY COURSE ON THE OPTIMAL DESIGN OF EXPERIMENTS

Antwerp, Belgium, 11-12 June 2009

The target audience for the course is starting Ph.D. students and anyone else who would like a primer on optimal design. Prerequisites for the course are knowledge of basic statistics and regression analysis. Familiarity with classical design of experiments is not required. The course is not highly mathematical and therefore accessible to a broad audience.

The course will start with an intuitive introduction of the topic and gradually builds up to more complicated situations. Examples for the course will be taken from industry, marketing, chemistry, medicine,... to show the wide applicability of the optimal design techniques. The attention will not be restricted to optimal design for linear regression models, but Bayesian optimal design and minimax designs for nonlinear regression models will also be discussed. The strengths and weaknesses of optimal design will be illustrated, and some remedies to overcome some of the problems will be given.

The venue for the course is in the Antwerp city center. Registration for the course costs 150 euro for academics and 600 euro for others. This fee includes course material and lunches on June 11 and 12. Registrants can arrange cheap accomodation in nearby hotels. The Antwerp city center is easy to reach by train, and there is an hourly bus service from and to Brussels National Airport.

The course will take place in a computer class so that the participants can work on a few algorithms and examples themselves. Various softwares will be demonstrated as well.

For further information, please contact Peter Goos at peter.goos@ua.ac.be