

# EURO Summer Institute 2006

Lutherstadt Wittenberg, Germany, August 18 – September 2, 2006

## Optimization Challenges in Engineering: Methods, Software and Applications

### Aims and Scope

Spanning the bridge between optimization theory and industrial applications is one of the big challenges for the operations research community. Continuous optimization and modern software implementations have become an indispensable resource in engineering sciences. This high demand in interdisciplinary collaboration is, however, not adequately covered in most of the current curricula programs in applied mathematics or engineering.

Aim of this EURO Summer Institute is to fill this gap and bring together young scientists with academic experts and professionals in engineering and software development.

Based on mini-courses on continuous optimization methods and their algorithmic realizations, this ESI will combine tutorial lectures, short surveys, and software presentations with student contributions and scientific discussions. It offers a unique opportunity for young scientists to acquaint themselves with state of the art optimization methodology and software, to enter the scientific community, and to share their experience with young colleagues from all over Europe.

### Invited Speakers

The keynote speakers at the ESI include Erling Anderson (Mosek, Denmark), Hans-Georg Bock (Heidelberg, Germany), Andrew Conn (IBM Research, USA), Andreas Griewank (Berlin, Germany), Michal Kočvara (Prague, Czech Republic), Annick Sartenaer (Namur, Belgium), Tamás Terlaky (Hamilton, Canada), and Lieven Vandenbergh (UCLA, USA), Andrea Walther (Dresden, Germany).

### Conference Venue

The conference will be held at the Leucorea, which is situated in Lutherstadt Wittenberg (Saxony-Anhalt, Germany). The Leucorea is a foundation under public law at the Martin-Luther-University Halle-Wittenberg.

Located in the eastern part of Germany, Lutherstadt Wittenberg is especially attractive also for students from Eastern European countries and the growing European Union.

### Committees

The ESI organising committee consists of Mirjam Dür (Darmstadt, Germany), Petra Huhn (Clausthal, Germany), Kathrin Klamroth (Erlangen, Germany) and Christiane Tammer (Halle, Germany) (local committee) and Bülent Karazözen (Ankara, Turkey), Ulrike Leopold-Wildburger (Graz, Austria), Günter Leugering (Erlangen, Germany) and Gerhard-Wilhelm Weber (Ankara, Turkey) (external committee).

### Participation

Participation is limited to a group of about 20 students, normally aged 25-35, who have significant experience in the field, and are authors of at least one high-quality paper which has not yet been published, nor submitted for publication. During ESI all participants are invited to give a talk of 20 minutes on their submitted paper.

Each national OR Society is entitled to send at least one participant (possibly up to three) to the ESI. The costs of the ESI are met by EURO and other organisations, excluding the participants' travel expenses which are normally met by the corresponding national OR Societies.

Students interested in participating in ESI 2006 should send their application, together with their curriculum vitae, their list of publications and an unpublished paper corresponding to this year's theme, to their national OR Society.

### Deadline

The deadline for application at the national OR Societies is March 15, 2006.

### Publication

A special issue of EJOR will be produced dedicated to the papers presented at the ESI, therefore the submitted paper should be suitable for publication in EJOR and meet EJOR's standards as described in the "Notes for Authors".

### Further Information

For further information see also the webpage [wwwopt.mathematik.tu-darmstadt.de/events/esi2006](http://wwwopt.mathematik.tu-darmstadt.de/events/esi2006) or send an e-mail to [esi2006@mathematik.tu-darmstadt.de](mailto:esi2006@mathematik.tu-darmstadt.de).