

One-day symposium on Optimization and Engineering

Sponsored by CORE, FUSL and ORBEL
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CORE, UCL, Louvain-la-Neuve

May 24, 2006

One-day symposium

Organizing committee

- ◇ Annick SARTENAER (FUNDP)
- ◇ Yves CRAMA and Philippe RIGO (ULG)
- ◇ Etienne LOUTE (FUSL) and François GLINEUR (CORE)
- ◇ Sylvie MAUROY and Sheila WEYERS (CORE)

Participants

- ◇ Eleven speakers, forty participants

ORBEL

Belgian Operations Research society

- ◇ Annual **ORBEL** conference
next year: *ORBEL21* in Luxembourg
- ◇ **ORBEL Award** for best Master thesis in O.R.
- ◇ International journal **4OR**
- ◇ Workshops

- ◇ Over a hundred members
- ◇ www.orbel.be

CORE

Center for Operations Research and Econometrics

- ◇ Happy birthday: 40 years!
- ◇ Interdisciplinary, more than a hundred members
- ◇ Operations research:
 - Workshop Mixed Integer and Integer Programming - The Way Forward (May 31st–June 1st)
 - Lecture series on Mixed Integer Nonlinear Programming by R. WEISMANTEL (September 4-15)
 - Weekly mathematical programming seminar
- ◇ www.core.ucl.ac.be

9:00	WELCOME
9:10–10:40	<ul style="list-style-type: none"> ▶ (Bio)-mechanical engineering applications of convex optimization <i>Bram DEMEULENAERE (KUL/MECH)</i> ▶ Optimization of multibody systems <i>Jean-François COLLARD AND Paul FISETTE (UCL/MECA)</i> ▶ Solving lower/upper bound approaches of limit analysis by an interior-point method for convex programming <i>Franck PASTOR (FUSL)</i>
10:40–11:00	COFFEE BREAK
11:00–12:00	<p>PLENARY TALK</p> <ul style="list-style-type: none"> ▶ Optimization methods for variational data assimilation into ocean models <i>Serge GRATTON (CERFACS)</i>
12:00–12:30	<ul style="list-style-type: none"> ▶ Optimization based on evolutionary algorithms for aeronautics <i>Rajan Filomeno COELHO (CENAERO)</i>
12:30–14:00	LUNCH (at the Fleur de Sel restaurant)
14:00–15:30	<ul style="list-style-type: none"> ▶ Simulation and optimization of a shipbuilding workshop <i>Frédéric BAIR (ULG/ANAST)</i> ▶ Mixed integer models for naval structure optimization <i>Maud BAY (ULG/ROGP)</i> ▶ Designing a new distribution strategy for a low-value goods producer: a practical solution for the inventory routing problem <i>El-Houssaine AGHEZZAF (Ghent)</i>
15:30–15:50	COFFEE BREAK
15:50–17:20	<ul style="list-style-type: none"> ▶ Optimizing future wireless communication systems <i>Jonathan DUPLICY (UCL/ELEC)</i> ▶ Development of an algorithm for solving mixed integer and nonconvex problems arising in electrical supply networks <i>Emilie WANUFELLE (FUNDP)</i> ▶ Use of genetic algorithm for designing redundant sensor network <i>Carine GERKENS (ULG/LASSC)</i>
17:20	CLOSING WORDS

Have a nice and fruitful conference!