

A DCAMM/TopOpt workshop

Optimal design / PDE constrained optimization



DTU, Lyngby Campus, Auditorium 49, building 303N
Thursday May 22, 2008

PROGRAMME:

- 12:00-13:00 Lunch in the cafeteria, building 101 (next to Glassalen) (see below)
- 13:00-13:50 Professor Ekkehard Sachs, Virginia Tech, USA, and Uni-Trier, Germany:
Newton's method - applications in optimal control
- 14:00-14:20 Jakob Søndergaard Jensen: *Optimal topology design in space and time*
- 14:20-14:40 Casper S. Andreasen: *Optimal topology design of micro-mixers*
- 14:40-15:00 Oded Amir: *Approximate re-analysis in topology optimization*
- 15:00-15:30 Coffee
- 15:30-16:20 Professor Robert Lipton, Louisiana State University, USA:
Optimal material design subject to local stress and strain constraints
- 16:30-17:30 Poster session by DTU postdocs, Ph.d.-students, and visitors:
- Sonja Ertel: *Sequential convex programming methods for free material optimization*
- Michael Bogomolny: *Laminate interpretation of free material optimization*
- Nam N. Canh: *Global optimization of minimum weight topology design problems*
- Stefanie Gaile: *Free material optimization for plates and shells*
- Aycañ Erentok: *Designing small antennas using topology optimization*
- Niels Aage: *Optimal topology design of 3D photonic crystals*
- Rene Matzen: *Optimization of transient behavior using topology optimization*
- Mirza Karamehmedovic: *Optical characterization of nanostructures in embedded materials*
- Jesper Mariegaard: *Using a control method to solve an inverse problem for the wave equation*

All presentations can be attended free of charge. The lunch is free for registered participants that are members of DCAMM. For other participants, the cost of the lunch is 100 kr, payable on site. If you wish to attend the lunch, please register no later than May 13, 2008 by sending an email to Ulla Lourcing <ulla.lourcing@mat.dtu.dk>.

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