

Scientific Computing

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CBC Workshop on Biomedical Modeling - June 8, 2011

The purpose of this workshop is to discuss and exchange ideas on biomedical modeling and parameter identification (inverse problems). The professors Daniela Calvetti and Erkki Somersalo from the US are visiting CBC and will attend the workshop and also give talks on their work with statistical frameworks for parameter identification. Other talks given by CBC researchers will focus on the current status of biomedical modeling and data uncertainty in the center.

Total number of participants: 12
 Total number of guests outside of CBC: 2
 Number of different nationalities represented: 3
 Total number of speakers: 8
 Total number of talks: 8

Agenda

10-12:

Modeling heart failure - Joakim Sundnes
 Syringomelia and CSF flow - Karen Støverud
 FEniCS: The next generation PDE software - Marie Rognes
 Error control and adaptivity for the non-expert - Marie Rognes



12-13: lunch

13-14:

Prof. Daniela Calvetti and Prof. Erkki Somersalo:
 Propagating uncertainty from parameters to solutions of systems of ODEs

14-16:

Uncertainty quantification via generalized polynomial chaos methods - Jonathan Feinberg
 Drug design via optimization and stability analysis - Glenn Lines
 Turbulence in intracranial aneurysms - Kristian Valen-Sendstad

What	▪ Workshop
When	Jun 08, 2011 from 10:00 AM to 04:00 PM
Where	Styrerommet @ Simula
Contact Name	Hans Petter Langtangen
Attendees	Bjørn Fredrik Nielsen Daniela Calvetti Erkki Somersalo Glenn Lines Hans Petter Langtangen Joakim Sundnes Jonathan Feinberg Karen Støverud Kent Andre Mardal Kristian Valen-Sendstad Marie Rognes Xing Cai
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