

Scientific Computing

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CBC Workshop with MOX - October 6, 2014

We would like to explore possible collaborations on geophysical and biomedical problems where porous media models with (discrete) fractures or channel networks play an important role.

Total number of participants: 21
 Total number of guests outside of CBC: 3
 Number of different nationalities represented: 7
 Total number of speakers: 10
 Total number of talks: 10

Computational Modeling with Applications in Biomedicine and Geophysics

09:50 10:00 Short welcome

10:00 10:25 Marie E. Rognes: TBA

10:25 10:50 Valeriya Naumova: Metalearning based Blood Glucose Predictor for Diabetic Smartphone App

10:50 11:15 Simon Funke: Automated adjoints in FEniCS and applications in cardiac electrophysiology

11:15 11:40 KentAndre Mardal: On the assumption of laminar flow in the modeling of physiological flow

11:40 12:30 Luca Formaggia: Some biomedical and geophysical applications at the MOX Laboratory of Politecnico di Milano

12:30 13:30 Lunch break (and information meeting for Simula employees at Storstua)

13:30 13:55 Simone Pezzuto: Spacediscretization error analysis and stabilization schemes for conduction velocity in cardiac electrophysiology

13:55 14:20 Øyvind Hjelle: A Hamilton-Jacobi Framework for Modeling Geological Folding and Deformation

14:20 14:45 Coffee break

14:45 15:10 Alessio Fumagalli: Nonmatching methods for flows in fractured porous media

15:10 15:35 Mats G. Larson: Cut Finite Element Methods for PDEs on Evolving Surfaces

15:35 16:00 André Massing: Cut finite element methods: Implementation Aspects and Applications

16:00 17:00 Time for discussions



Most of you have probably heard about MOX, but you can find some information on their web page <http://mox.polimi.it/> and their research project overview <http://mox.polimi.it/it/progetti/indexpro.php?en=en>

More specific information on published articles, research profile etc. is available from Luca's and Alessio's research profiles:

https://www.researchgate.net/profile/Luca_Formaggia
https://www.researchgate.net/profile/Alessio_Fumagalli

Looking forward to you input!

What	
When	Oct 06, 2014 from 09:50 AM to 05:00 PM
Where	Bakrommet @ Simula
Contact Name	Andre Massing
Attendees	Alessio Fumagalli August Joahanson Gabriel Balaban Joakim Sundnes Johannes Ring Kent-Andre Mardal Kristin Tøndel Lucca Formaggia Magne Nordaas Marie Rognes Martin Alnæs Mats G. Larson Mikael Mortensen Miroslav kuchta Øyvind Evju Øyvind Hjelle Samuel Wall Simon Funke

	Simone Pezzuto Tom Nærland Valeria Neumova
Add event to calendar	 vCal  iCal