Scientific Computing

CBC and CCI Workshop on Advancing Numerical Technologies in the Cardiac Domain, May 15, 2013

Topics will include serendipity finite elements, multi-scale diffusion phenomena, code generation for ODEs, and adjoint techniques and applications in the cardiac domain.

Total number of participants: 15
Total number of guests outside of CBC: 3
Number of different nationalities represented: 5
Total number of speakers: 6
Total number of talks: 6

Agenda

13:00 - 13:30: Andrew Gillette, UCSD: "Serendipity Finite Element Methods for Cardiac Electrophysiology Models"

13:30 - 14:00: Peter Kekenes-Huskey: "The use of FEniCS for modeling multi-scale diffusion phenomena: from enzyme reactions to subcellular signaling".

14:00 - 14:30: Patrick Farrell, Imperial College London: "Using adjoints to answer scientific questions"

14:30 -- 14.45: Break

14:45 -- 15:05: Johan Hake, Simula: "A General ODE translator (Gotran): Towards a versatile tool for general ODEs"

15:05 -- 15:25: Marie Rognes, Simula: "An adjoint-enabled simulation framework for cardiac electrophysiology"

15:25 -- 15:45: Martin Alnæs, Simula: "Data assimilation with Navier-Stokes splitting schemes and dolfin-adjoint"

What	
When	May 15, 2013 from 01:00 PM to 04:00 PM
Where	Bakrommet @ Simula
Contact Name	Marie Rognes
Attendees	Andre Massing, Andrew Gillette, US Aslak Tveito, Benjamin Kehlet, Bernardo, Gabriel Balaban, Glenn Lines, Iben Simonsen, Johan Hake, Marie Rognes, Martin Alnæs, Molly Maleckar, Patrick Farrell, Ireland Peter Kekenes-Huskey, US Siri Kallhovd,
Add event to calendar	vCal iCal