

Scientific Computing

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CBC and CMA Conference on Compatible and Innovative Discretizations for Partial Differential Equations - June 17-19, 2009

Algorithms, analysis, and implementation on the occasion of Ragnar Winther's 60th birthday.

Total number of participants: 32

Total number of guests outside of CBC: 26

Total number of speakers: 19

Total number of talks: 19

The numerical solution of partial differential equations is a fundamental task in science and engineering. Recent research has focused on so-called 'compatible discretization techniques', defined as those discretization methods that inherit or mimic fundamental properties of the PDE such as topology, conservation, symmetries, and positivity structures and maximum principles. Although this research has established a firm framework for the analysis of discrete PDE problems, most developers and users of scientific software for the numerical solution of PDEs employ simple and less robust methods. With this workshop we aim to bring together researchers on the theoretical aspects of numerical methods and scientists focusing on simulations and software development, and is a joint workshop between CBC and Centre for Mathematics for Applications.

Please register for the workshop before May 30, 2009

You may find a detailed plan for the workshop on the website of CMA .

Invited speakers

Wolfgang Bangerth
 Franco Brezzi
 Annalisa Buffa
 Snorre H. Christiansen
 Richard S. Falk
 Ralf Hiptmair
 Robert C. Kirby
 Anders Logg
 Marie Rognes
 Siddhartha Mishra
 Joachim Schöberl
 Xue-Cheng Tai
 Aslak Tveito

Organizing committee

Douglas Arnold
 Helge Galdal
 Helge Holden
 Hans Petter Langtangen
 Tom Lyche
 Kent Andre Mardal
 Marie Rognes

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|---------------------|---|
| What | ▪ Workshop |
| When | Jun 17, 2009 09:00 AM to Jun 19, 2009 04:00 PM |
| Where | Norwegian Academy of Science, Drammensveien 78, Oslo |
| Contact Name | Kent-Andre Mardal Abiyote Ayele Aboye Yussif Atarawa Gerard Awanou Mandus ErKul Marc Gerritsma Tore G. Halvorsen Holger Heumann Kenneth Karlsen Trygve Karper Runhild Klausen Ujjwal Koley Sergey Korotov Roman Kozlov |

| | |
|------------------------------|--|
| Attendees | Jasper Kreeft Ritesh Kumar Simen Kvaal Hans Petter Lantangen Randall LeVeque Tom Lyche Kent Andre Mardal Donatella Marini Andre Massing Pascal Omnes Artur Palha Marie Rognes Thomas Russel Mattias Sandberg Claire Sheid Aslak Tveito Suleyman Ulusoy Shawn Walker Li-Lian Wang |
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