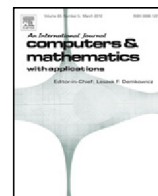




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Computers and Mathematics with Applications

journal homepage: www.elsevier.com/locate/camwa

Editorial

Advanced Computational Methods in ENgineering
(ACOMEN 2017)

As you may know, ACOMEN 2017 is the 7th meeting in a well known series of international conferences that started in the year 1998. As the acronym ACOMEN reveals, the basic idea was (and still is) to focus on advanced computational methods applied or applicable to actual problems in a wide variety of engineering disciplines, and moreover to provide an interaction platform.

Since 1998, six editions of ACOMEN were organized, three of them in Ghent and three in Liège. The 200rd birthday of Ghent University in 2017 was a particular reason to organize ACOMEN at Ghent University again.

The 7th edition of ACOMEN took place at the historical center of Ghent, from September 18 till September 22, 2017. The conference building, named Het Pand, had been a Dominican monastery for more than 5 centuries and was closed in 1796 after the French revolution. Ghent University acquired the monumental building around 50 years ago and destined it mainly as a cultural center.

ACOMEN 2017 welcomed 144 participants coming from 31 different countries, in particular 17 non-European countries. Another important factor of the success of ACOMEN was the high-standing invited main lectures given by world-wide recognized experts in their respective research fields:

- Susanne C. Brenner (Louisiana State University): C^0 Interior Penalty Methods;
- Zdzisław Brzeźniak (University of York): Finite element method approximation of stochastic Landau–Lifshitz–Gilbert Equations;
- Martin Burger (University of Münster): Undersampled Dynamic Tomography and Motion Estimation;
- Charles Elliott (University of Warwick): Numerical solution of PDEs on surfaces and evolving domains;
- Ralf Hiptmair (ETH Zürich): Operator Preconditioning: Theory and Applications;
- Michael Klivanov (University of North Carolina at Charlotte): Phaseless Inverse Scattering and Global Convergence for Coefficient Inverse Problems;
- Peter Knabner (Universität Erlangen–Nürnberg): Micro–Macro Models for Reactive Flow and Transport Problems in Complex Media;
- Alfio Quarteroni (Ecole Polytechnique Federale de Lausanne): Mathematical and numerical modeling of multiphysics problems, with application to the cardiovascular system.

The organizers would like to thank the session chairs and organizers of the mini-symposia for their engagement: Markus Bause, Thomas Carrao, Ivan Cimrák, Rob De Staelen, Abdellatif El Badia, Peter Frolkovič, Christophe Geuzaine, Thomas Henneron, Matteo Icardi, Mohammad Issa, Iveta Jančígová, Klaus Kaiser, Serge Nicaise, Florin Adrian Radu, Hendrik Rogier, Ruth V. Sabariego, and Jochen Schütz.

Finally, special thanks goes to the organizational team of this years edition, all technical staff working behind the scenes, and all the authors and referees for their excellent contributions.

We hope to see you back at the next edition of ACOMEN.

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