



COMPUTERS & MATHEMATICS WITH APPLICATIONS

An International Journal

AUTHOR INFORMATION PACK

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Computers & Mathematics with Applications provides a medium of exchange for those engaged in fields contributing to building successful **simulations** for **science** and **engineering** using **Partial Differential Equations** (PDEs).

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FEM, a priori and a posteriori error analysis of approximation of PDE, adaptive finite element methods, eigenvalue problems for PDE, fluid-structure interaction

Jean-Luc Guermond, Texas A&M University, College Station, Texas, USA

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Jun Hu, Peking University, Beijing, China

Nonconforming finite element methods, adaptive finite element methods, Reissner-Mindlin plate problems, eigenvalue problems, variational inequalities

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CFD, kinetic methods, especially Lattice Boltzmann methods, HPC, fault tolerant computing

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mechanics of solids and structures, smart materials and structures, variational inequalities, complementarity problems, finite elements

Jichun Li, University of Nevada at Las Vegas, Las Vegas, Nevada, USA

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Jens Markus Melenk, Technische Universität Wien, Wien, Austria

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Neela Nataraj, Indian Institute of Technology- Mumbai, Mumbai, India

FEM, viscoelasticity, mixed methods, parallel implementations

Nilima Nigam, Simon Fraser University, Burnaby, British Columbia, Canada

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Fabio Nobile, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland

numerical approximation of PDEs with stochastic data; polynomial chaos approximations; sparse grids; uncertainty quantification; finite element method; fluid-structure interaction; cardiovascular mathematics

Abani K. Patra, The State University of New York at Buffalo, Buffalo, New York, USA

Adaptive meshing, parallel computing, uncertainty quantification, linear system solvers, domain decomposition theory, geophysical modeling, scientific

Jorg Peters, Dept. of CISE, University of Florida, CSE Building, Gainesville, FL 32611-6120, USA

Impact of geometry on PDEs (eg. representation and shape of boundary surfaces); higher order isoparametric methods (reparameterization on 'physical domains'); (interactive) simulation of tissue

Ernesto Prudencio, University of Texas at Austin, Austin, Texas, USA

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Serge Prudhomme, Polytechnique Montreal, Montréal, Quebec, Canada

Finite Elements, a posteriori error estimation, adaptive methods, model adaptivity, Verification and Validation, inverse problems, uncertainty quantification

Joachim Schöberl, Technische Universität Wien, Wien, Austria

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[2] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

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[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[4] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13.03.03).

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