

Hauptvorträge

Michael Dumbser (Richard-von-Mises Preisträger 2007), Universität Stuttgart, Deutschland

Explicit high-order one-step finite-volume and discontinuous Galerkin schemes on unstructured triangular and tetrahedral meshes for hyperbolic balance laws

Tatjana Stykel (Richard-von-Mises Preisträger 2007), Technische Universität Berlin, Deutschland

Model reduction of differential-algebraic equations

Kaushik Bhattacharya, California Institute of Technology Pasadena, USA

Quasi-continuum orbital-free density functional theory: a route to multimillion-atom electronic structure calculations

Andreas Kugi, Technische Universität Wien, Österreich

Tracking control of distributed-parameter systems: from theory to applications

Stefan Odenbach, Technische Universität Dresden, Deutschland

Ferrofluids: magnetically controllable liquids

Anatoly Ruban, University of Manchester, United Kingdom

On unsteady boundary-layer separation

Paul Steinmann, Technische Universität Kaiserslautern, Deutschland

Secret and joy of configurational mechanics: from foundations in continuum mechanics to applications in computational mechanics

Öffentlicher Vortrag

Ivar Ekeland, University of British Columbia, Vancouver, Kanada

The best of all possible worlds: the idea of optimization

Ludwig-Prandtl- Gedächtnisvorlesung

Timothy J. Pedley, University of Manchester, Großbritannien

The fluid mechanics of swimming micro-organisms in suspension