Jan Hesthaven - DTU Orbit (04/02/2018)
Jan Hesthaven

Publications:

**Computer simulation: dynamical systems and multiscale modeling**
Publication: Research › Book chapter – Annual report year: 2009

**Nodal Discontinuous Element Methods: Formulations, Analysis, and Applications**
Publication: Research › Doctoral thesis – Annual report year: 2009

**DG-FEM solution for nonlinear wave-structure interaction using Boussinesq-type equations**
Publication: Research - peer-review › Journal article – Annual report year: 2008

**Biased liquid crystal photonic bandgap fiber**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

**DG-FEM solution for nonlinear wave-structure interaction using Boussinesq-type equations**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

**A Level Set Discontinuous Galerkin Method for Free Surface Flows**
Publication: Research - peer-review › Journal article – Annual report year: 2006

**An unstructured DG-FEM method for nonlinear wave-structure interaction**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

**DG-FEM in computational hydrodynamics**
Publication: Research › Conference abstract for conference – Annual report year: 2006

**A nodal discontinuous Galerkin spectral/hp method for high order Boussinesq-type equations**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

**A stable penalty method for the compressible Navier-Stokes equations: II: One-dimensional domain decomposition schemes**
Publication: Research › Journal article – Annual report year: 1997

**An asymptotically stable penalty method for multi-domain solution of the unsteady compressible Navier-Stokes equations**
Publication: Research › Article in proceedings – Annual report year: 1996

**A stable penalty method for the compressible Navier-Stokes equations: I. Open boundary conditions**
Publication: Research › Journal article – Annual report year: 1996

**Integration preconditioners for differential operators in spectral τ-methods**
Publication: Research › Article in proceedings – Annual report year: 1996

**Numerical studies of unsteady coherent structures and transport in two-dimensional flows**
Publication: Research › Ph.D. thesis – Annual report year: 1995

Projects:
Efficient Large-Scale Reservoir Simulation on Modern Many-Core Hardware
Project: PhD

Uncertainty Quantification for advanced engineering applications
Project: PhD

Numerisk approksimation af rand-kontrol problemer
Project: PhD

Fotoniske Krystal Fibre i Nye Materialer
Project: PhD

Numerical techniques for solving Boussinesq equations for fully nonlinear and extremely dispersive water waves
Project: PhD

PDE-regulering i Scientific Computing
Project: PhD

Kohærente strukturer dynamik
Project: PhD