Anton Evgrafov - DTU Orbit (25/02/2018)
Anton Evgrafov

Publications:

**Hydrodynamics studies of cyclic voltammetry for electrochemical micro biosensors**
Publication: Research - peer-review › Journal article – Annual report year: 2015

**Numerical Modeling of Microelectrochemical Systems**
Publication: Research › Ph.D. thesis – Annual report year: 2015

**Simulating cyclic voltammetry under advection for electrochemical cantilevers**
Publication: Research - peer-review › Journal article – Annual report year: 2015

**Iso-geometric shape optimization of magnetic density separators**
Publication: Research - peer-review › Journal article – Annual report year: 2014

**Mathematical Modeling and Dimension Reduction in Dynamical Systems**
Publication: Research › Ph.D. thesis – Annual report year: 2014

**Planar Parametrization in Isogeometric Analysis**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

**State space Newton’s method for topology optimization**
Publication: Research - peer-review › Journal article – Annual report year: 2014

**State-Space Reduced Newton’s Algorithm for Topology Optimization**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

**Introduction to Continuous Optimization**
Publication: Research - peer-review › Book – Annual report year: 2014

**Newton-type method for the variational discretization of topology optimization problems**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

**Control in the coefficients with variational crimes: Application to topology optimization of Kirchhoff plates**
Publication: Research - peer-review › Journal article – Annual report year: 2012

**Isogeometric analysis and shape optimization in electromagnetism**
Publication: Research › Ph.D. thesis – Annual report year: 2012

**ISOGEO METRIC SHAPE OPTIMIZATION FOR ELECTROMAGNETIC SCATTERING PROBLEMS**
Publication: Research - peer-review › Journal article – Annual report year: 2012

**Convergence of Cell Based Finite Volume Discretizations for Problems of Control in the Conduction Coefficients**
Publication: Research - peer-review › Journal article – Annual report year: 2011

**Finite Volumes Discretization of Topology Optimization Problems**
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011
Isogeometric Analysis and Shape Optimisation
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Isogeometric Shape Optimization of Vibrating Membranes
Publication: Research - peer-review › Journal article – Annual report year: 2011

On the sensitivities of multiple eigenvalues
Publication: Research - peer-review › Journal article – Annual report year: 2011

Topology Optimization of Nano-Mechanical Cantilever Sensors Using a C0 Discontinuous Galerkin-Type Approach
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Topology optimization problems with design-dependent sets of constraints
Publication: Research › Ph.D. thesis – Annual report year: 2010

A parametric level-set approach for topology optimization of flow domains
Publication: Research - peer-review › Journal article – Annual report year: 2010

Cell based finite volume discretization of control in the coefficients problems
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2010

Isogeometric analysis and shape optimisation
Publication: Research › Article in proceedings – Annual report year: 2010

Isogeometric Analysis Towards Shape Optimization in Electromagnetics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Isogeometric Design of Vibrating Membranes
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

Isogeometric Shape Optimization
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

Isogeometric Shape Optimization of freely varying shapes
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2010

Isogeometric Shape Optimization of Vibrating Membranes
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

Isogeometric Shape Optimization of Vibrating Membranes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Topology optimization of flexible micro-fluidic devices
Publication: Research - peer-review › Journal article – Annual report year: 2010

Topology optimization using a discontinuous Galerkin method
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2010

Adjoint Parameter Sensitivity Analysis for the Hydrodynamic Lattice Boltzmann Method with Applications to Design Optimization
Publication: Research - peer-review › Journal article – Annual report year: 2009
Design of deformation-sensitive flow problems by topology optimization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Design of Piezoelectric Energy Harvesting Systems: A Topology Optimization Approach Based on Multilayer Plates and Shells
Publication: Research - peer-review › Journal article – Annual report year: 2009

Isogeometric Analysis in Structural Analysis
Publication: Research - peer-review › Poster – Annual report year: 2009

Isogeometric Design of Vibrating Membranes
Publication: Research - peer-review › Poster – Annual report year: 2009

Optimal synthesis of tunable elastic wave-guides
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Parametrisation In Isogeometric Analysis: A first report
Publication: Research › Report – Annual report year: 2009

Topology optimization for nano-scale heat transfer
Publication: Research - peer-review › Journal article – Annual report year: 2009

Topology optimization of piezoelectric energy harvesting structures and circuits
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Optimal synthesis of tunable elastic wave-guides
Publication: Research - peer-review › Journal article – Annual report year: 2008

Projects:

Efficient 3D Shape Optimization
Project: PhD

Mathematical Analysis and Computations for Multiphysics Tomography
Project: PhD

Topology Optimization and Lattice Bolzmann Methods
Project: PhD

Optimization on Manifolds - with applications to shape optimization.
Project: PhD

Mathematical programming methods for large-scale structural topology optimization
Project: PhD

Mathematical Modelling and Optimization of Nano Mechanical Devices
Project: PhD

Adaptive Simulations of Nonlinear Structures in Magnetized Plasma
Project: PhD
Large-Scale Algorithms for Non-Smooth Convex Optimization
Project: PhD

Dimension reduction methods applied to mechanical systems
Project: PhD

Iso-geometric analysis and shape optimization in electromagnetism
Project: PhD

Fluid Optimisation Workflows for Highly Effective Automotive Development Processes
Project

Topology Optimization for Crashworthiness Design Using Approximate Procedures
Project: PhD

Topology Optimization Problems with Design-Dependent Sets of Constraints
Project: PhD