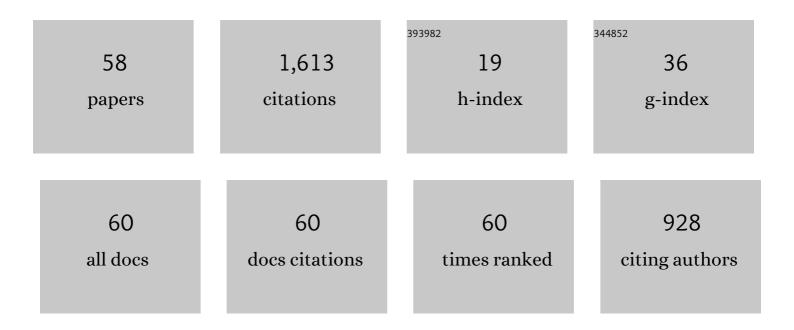
Michael Ulbrich

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | An Inexact Bundle Method and Subgradient Computations for Optimal Control of Deterministic and Stochastic Obstacle Problems. International Series of Numerical Mathematics, 2022, , 467-497. | 1.0 | 2 |
| 2 | On the local convergence of a stochastic semismooth Newton method for nonsmooth nonconvex optimization. Science China Mathematics, 2022, 65, 2151-2170. | 0.8 | 3 |
| 3 | An Approximation Scheme for Distributionally Robust PDE-Constrained Optimization. SIAM Journal on Control and Optimization, 2022, 60, 1410-1435. | 1.1 | 1 |
| 4 | Newton Differentiability of Convex Functions in Normed Spaces and of a Class of Operators. SIAM Journal on Optimization, 2022, 32, 1265-1287. | 1.2 | 2 |
| 5 | A Continuous Perspective on Shape Optimization via Domain Transformations. SIAM Journal of Scientific Computing, 2021, 43, A1997-A2018. | 1.3 | 13 |
| 6 | An Interior-Point Approach for Solving Risk-Averse PDE-Constrained Optimization Problems with Coherent Risk Measures. SIAM Journal on Optimization, 2021, 31, 1-29. | 1.2 | 16 |
| 7 | OPTE special issue on PDE-constrained optimization. Optimization and Engineering, 2021, 22, 1985-1987. | 1.3 | 0 |
| 8 | An Approximation Scheme for Distributionally Robust Nonlinear Optimization. SIAM Journal on Optimization, 2020, 30, 1996-2025. | 1.2 | 2 |
| 9 | MINLP-Based Routing for Electric Vehicles with Velocity Control in Networks with Inhomogeneous Charging Stations. , 2020, , . | | 0 |
| 10 | Analysis of shape optimization problems for unsteady fluid-structure interaction. Inverse Problems, 2020, 36, 034001. | 1.0 | 11 |
| 11 | An Inexact Bundle Algorithm for Nonconvex Nonsmooth Minimization in Hilbert Space. SIAM Journal on Control and Optimization, 2019, 57, 3137-3165. | 1.1 | 9 |
| 12 | A Stochastic Semismooth Newton Method for Nonsmooth Nonconvex Optimization. SIAM Journal on Optimization, 2019, 29, 2916-2948. | 1.2 | 17 |
| 13 | An introduction to partial differential equations constrained optimization. Optimization and Engineering, 2018, 19, 515-520. | 1.3 | 5 |
| 14 | Fréchet Differentiability of Unsteady Incompressible Navier–Stokes Flow with Respect to Domain Variations of Low Regularity by Using a General Analytical Framework. SIAM Journal on Control and Optimization, 2017, 55, 3226-3257. | 1.1 | 6 |
| 15 | Mathematical programs with complementarity constraints in the context of inverse optimal control for locomotion. Optimization Methods and Software, 2017, 32, 670-698. | 1.6 | 10 |
| 16 | Constrained Optimization with Low-Rank Tensors and Applications to Parametric Problems with PDEs. SIAM Journal of Scientific Computing, 2017, 39, A25-A54. | 1.3 | 23 |
| 17 | A Multigrid Semismooth Newton Method for Semilinear Contact Problems. Journal of Computational Mathematics, 2017, 35, 486-528. | 0.2 | 6 |
| 18 | A Semismooth Newton-CG Method for Constrained Parameter Identification in Seismic Tomography. SIAM Journal of Scientific Computing, 2015, 37, S334-S364. | 1.3 | 27 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Adjoint based optimal control of partially miscible two-phase flow in porous media with applications to CO2 sequestration in underground reservoirs. Optimization and Engineering, 2015, 16, 103-130. | 1.3 | 10 |
| 20 | Distributed Stability Tests for Large-Scale Systems With Limited Model Information. IEEE Transactions on Control of Network Systems, 2015, 2, 298-309. | 2.4 | 11 |
| 21 | A Self-Concordant Interior Point Approach for Optimal Control with State Constraints. SIAM Journal on Optimization, 2015, 25, 770-806. | 1.2 | 6 |
| 22 | On the Analysis of the Discretized KohnSham Density Functional Theory. SIAM Journal on Numerical Analysis, 2015, 53, 1758-1785. | 1.1 | 20 |
| 23 | A Proximal Gradient Method for Ensemble Density Functional Theory. SIAM Journal of Scientific Computing, 2015, 37, A1975-A2002. | 1.3 | 15 |
| 24 | Moreau–Yosida regularization in shape optimization with geometric constraints. Computational Optimization and Applications, 2015, 62, 181-216. | 0.9 | 12 |
| 25 | A class of distributed optimization methods with event-triggered communication. Computational Optimization and Applications, 2014, 57, 517-553. | 0.9 | 21 |
| 26 | A Semismooth Newton Method with Multidimensional Filter Globalization for \$I_1\$-Optimization. SIAM Journal on Optimization, 2014, 24, 298-333. | 1.2 | 47 |
| 27 | Distributed control design with local model information and guaranteed stability. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4010-4017. | 0.4 | 7 |
| 28 | Adaptive Regularized Self-Consistent Field Iteration with Exact Hessian for Electronic Structure Calculation. SIAM Journal of Scientific Computing, 2013, 35, A1299-A1324. | 1.3 | 15 |
| 29 | Distributed controller design for a class of sparse singular systems with privacy constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 190-197. | 0.4 | 2 |
| 30 | Immersed Boundary Methods for Fluid-Structure Interaction and Shape Optimization within an FEM-Based PDE Toolbox. Lecture Notes in Computational Science and Engineering, 2013, , 25-56. | 0.1 | 1 |
| 31 | Optimal Control of Partially Miscible Two-Phase Flow with Applications to Subsurface CO2 Sequestration. Lecture Notes in Computational Science and Engineering, 2013, , 81-98. | 0.1 | 2 |
| 32 | A Newton-CG Method for Full-Waveform Inversion in a Coupled Solid-Fluid System. Lecture Notes in Computational Science and Engineering, 2013, , 99-117. | 0.1 | 2 |
| 33 | Modeling and Analysis of Human Navigation with Crossing Interferer Using Inverse Optimal Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 475-480. | 0.4 | 13 |
| 34 | Accelerated iterative distributed controller synthesis with a Barzilai-Borwein step size. , 2012, , . | | 11 |
| 35 | Advanced Numerical Methods for PDE Constrained Optimization with Application to Optimal Design in Navier Stokes Flow. International Series of Numerical Mathematics, 2012, , 257-275. | 1.0 | 7 |
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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | A bilevel optimization approach to obtain optimal cost functions for human arm movements. Numerical Algebra, Control and Optimization, 2012, 2, 105-127. | 1.0 | 31 |
| 38 | Imitating human reaching motions using physically inspired optimization principles. , 2011, , . | | 51 |
| 39 | A New Relaxation Scheme for Mathematical Programs with Equilibrium Constraints. SIAM Journal on Optimization, 2010, 20, 2504-2539. | 1.2 | 58 |
| 40 | Optimization Criteria for Human Trajectory Formation in Dynamic Virtual Environments. Lecture Notes in Computer Science, 2010, , 257-262. | 1.0 | 8 |
| 41 | Fortschritte in der Optimalsteuerung. Automatisierungstechnik, 2009, 57, 267-268. | 0.4 | 0 |
| 42 | Primal-dual interior-point methods for PDE-constrained optimization. Mathematical Programming, 2009, 117, 435-485. | 1.6 | 34 |
| 43 | Optimization with PDE Constraints. Mathematical Modelling: Theory and Applications, 2009, , . | 0.2 | 77 |
| 44 | A Continuous Adjoint Approach to Shape Optimization for Navier Stokes Flow. International Series of Numerical Mathematics, 2009, , 35-56. | 1.0 | 32 |
| 45 | A globally convergent primal-dual interior-point filter method for nonlinear programming. Mathematical Programming, 2004, 100, 379-410. | 1.6 | 150 |
| 46 | A mesh-independence result for semismooth Newton methods. Mathematical Programming, 2004, 101, 151. | 1.6 | 75 |
| 47 | Non-monotone trust region methods for nonlinear equality constrained optimization without a penalty function. Mathematical Programming, 2003, 95, 103-135. | 1.6 | 64 |
| 48 | Constrained optimal control of Navier–Stokes flow by semismooth Newton methods. Systems and Control Letters, 2003, 48, 297-311. | 1.3 | 38 |
| 49 | Semismooth Newton Methods for Operator Equations in Function Spaces. SIAM Journal on Optimization, 2002, 13, 805-841. | 1.2 | 170 |
| 50 | Optimal control of unsteady compressible viscous flows. International Journal for Numerical Methods in Fluids, 2002, 40, 1401-1429. | 0.9 | 40 |
| 51 | Nonmonotone Trust-Region Methods for Bound-Constrained Semismooth Equations with Applications to Nonlinear Mixed Complementarity Problems. SIAM Journal on Optimization, 2001, 11, 889-917. | 1.2 | 84 |
| 52 | On a Nonsmooth Newton Method for Nonlinear Complementarity Problems in Function Space with Applications to Optimal Control. Applied Optimization, 2001, , 341-360. | 0.4 | 3 |
| 53 | Numerical Solution of Optimal Control Problems Governed by the Compressible Navier-Stokes Equations. , 2001, , 43-55. | | 9 |
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54 Towards adjoint-based methods for aeroacoustic control. , 2001, , .

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Superlinear Convergence of Affine-Scaling Interior-Point Newton Methods for Infinite-Dimensional Nonlinear Problems with Pointwise Bounds. SIAM Journal on Control and Optimization, 2000, 38, 1938-1984. | 1.1 | 37 |
| 56 | Superlinear and quadratic convergence of affine-scaling interior-point Newton methods for problems with simple bounds without strict complementarity assumption. Mathematical Programming, 1999, 86, 615-635. | 1.6 | 63 |
| 57 | Global Convergence of Trust-region Interior-point Algorithms for Infinite-dimensional Nonconvex Minimization Subject to Pointwise Bounds. SIAM Journal on Control and Optimization, 1999, 37, 731-764. | 1.1 | 49 |
| 58 | Automatic Differentiation: A Structure-Exploiting Forward Mode with Almost Optimal Complexity for KantoroviĕTrees. , 1996, , 327-357. | | 3 |