CITATION REPORT List of articles citing



DOI: 10.1137/s1052623401383558 SIAM Journal on Optimization, 2002, 13, 865-888.

Source: https://exaly.com/paper-pdf/34303054/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
645	Semi-smooth Newton methods for state-constrained optimal control problems. 2003 , 50, 221-228		79
644	Inexact semismooth Newton methods for large-scale complementarity problems. 2004 , 19, 309-325		49
643	Differentiability properties of the L 1 -tracking functional and application to the Robin inverse problem. <i>Inverse Problems</i> , 2004 , 20, 1083-1097	2.3	24
642	A mesh-independence result for semismooth Newton methods. <i>Mathematical Programming</i> , 2004 , 101, 151	2.1	65
641	Total Bounded Variation Regularization as a Bilaterally Constrained Optimization Problem. 2004 , 64, 1311-1333		107
640	Semismooth Newton and Augmented Lagrangian Methods for a Simplified Friction Problem. <i>SIAM Journal on Optimization</i> , 2004 , 15, 39-62	2	35
639	The Primal-Dual Active Set Method for Nonlinear Optimal Control Problems with Bilateral Constraints. 2004 , 43, 357-376		42
638	Generalized Newton methods for the 2D-Signorini contact problem with friction in function space. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2005 , 39, 827-854	1.8	34
637	10. Back Matter. 2005 , 287-297		
636	A priori error estimates and an inexact primal-dual active set strategy for linear and quadratic finite elements applied to multibody contact problems. 2005 , 54, 555-576		29
635	A semi-smooth Newton method for control constrained boundary optimal control of the NavierBtokes equations. 2005 , 62, 1289-1316		41
634	A primaldual active set strategy for non-linear multibody contact problems. 2005, 194, 3147-3166		169
633	Generalized Newton methods for crack problems with nonpenetration condition. 2005 , 21, 586-610		10
632	Semismoothness of solutions to generalized equations and the Moreau-Yosida regularization. <i>Mathematical Programming</i> , 2005 , 104, 561-581	2.1	46
631	Numerical Procedure for Calibration of Volatility with American Options. 2005 , 12, 201-241		11
630	A Primal-Dual Active Set Strategy for Optimal Boundary Control of a Nonlinear Reaction-Diffusion System. 2005 , 44, 467-494		31
629	Pseudo-Transient Continuation for Nonsmooth Nonlinear Equations. 2005 , 43, 1385-1406		16

(2007-2005)

628	A Primal-Dual Active Set Method for Bilaterally Control Constrained Optimal Control of the NavierBtokes Equations. 2005 , 25, 657-683	10
627	FINITE DIFFERENCE SMOOTHING SOLUTIONS OF NONSMOOTH CONSTRAINED OPTIMAL CONTROL PROBLEMS. 2005 , 26, 49-68	1
626	Large-Scale Nonlinear Optimization. 2006 ,	10
625	Optimal absorption design for damped elastic systems. 2006 ,	8
624	Numerical Solution of Optimal Control Problems with Convex Control Constraints. 2005, 319-327	1
623	Primaldual active set method for control constrained optimal control of the Stokes equations. 2006 , 21, 267-293	2
622	A SQP-Semismooth Newton-type Algorithm applied to Control of the instationary NavierStokes System Subject to Control Constraints. <i>SIAM Journal on Optimization</i> , 2006 , 16, 1177-1200	33
621	Feasible and Noninterior Path-Following in Constrained Minimization with Low Multiplier Regularity. 2006 , 45, 1198-1221	60
620	An Infeasible Primal-Dual Algorithm for Total Bounded VariationBased Inf-Convolution-Type Image Restoration. 2006 , 28, 1-23	109
619	Augmented Lagrangian method applied to American option pricing. 2006, 42, 1407-1416	14
618	Parabolic variational inequalities: The Lagrange multiplier approach. 2006, 85, 415-449	32
617	Parametric Sensitivity Analysis for Optimal Boundary Control of a 3D Reaction-Diffusion System. 2006 , 127-149	2
616	Primal-dual sensitivity analysis of active sets for mixed boundary-value contact problems. 2006 , 55, 151-166	4
615	A Semi-smooth Newton Method for Regularized State-constrained Optimal Control of the Navier-Stokes Equations. 2006 , 78, 287-309	16
614	A comparison of solvers for linear complementarity problems arising from large-scale masonry structures. 2006 , 51, 93-128	5
613	Mortar methods for contact problems. 2006 , 39-47	2
612	Algorithmic strategies for full-waveform Inversion: 1D Experiments. 2007,	
611	Surrogate functionals and thresholding for inverse interface problems. 2007 , 15, 387-401	2

610	Constrained Dirichlet Boundary Control in \$L^2\$ for a Class of Evolution Equations. 2007 , 46, 1726-175	53	42
609	Convergence of the Primal-Dual Active Set Strategy for Diagonally Dominant Systems. 2007 , 46, 14-34		2
608	Analysis of the SQP-Method for Optimal Control Problems Governed by the Nonstationary NavierBtokes Equations Based on \$L^p\$-theory. 2007 , 46, 1133-1153		2
607	Numerical Sensitivity Analysis for the Quantity of Interest in PDE-Constrained Optimization. 2007 , 29, 22-48		12
606	Efficient Algorithms for Problems with Friction. 2007 , 29, 70-92		38
605	Optimal Control of the Stationary NavierBtokes Equations with Mixed Control-State Constraints. 2007 , 46, 604-629		28
604	A primal-dual active-set method for non-negativity constrained total variation deblurring problems. 2007 , 16, 2766-77		30
603	Mesh independence and fast local convergence of a primal-dual active-set method for mixed control-state constrained elliptic control problems. 2007 , 49, 1-38		10
602	A fast and robust iterative solver for nonlinear contact problems using a primal-dual active set strategy and algebraic multigrid. 2007 , 69, 524-543		27
601	Unilateral non-linear dynamic contact of thin-walled structures using a primal-dual active set strategy. 2007 , 70, 883-912		46
600	Modeling and numerical analysis of masonry structures. 2007 , 23, 798-816		7
599	Path-following and augmented Lagrangian methods for contact problems in linear elasticity. Journal of Computational and Applied Mathematics, 2007 , 203, 533-547	2.4	26
598	Nonlinear solution methods for infinitesimal perfect plasticity. 2007 , 87, 643-660		34
597	Boundary optimal flow control with state constraints. 2007 , 7, 2060029-2060030		
596	A semi-smooth Newton method for an inverse problem in option pricing. 2007 , 7, 1081105-1081106		
595	Constrained optimization for interface cracks in composite materials subject to non-penetration conditions. 2007 , 59, 301-321		4
594	A mortar based contact formulation for non-linear dynamics using dual Lagrange multipliers. 2008 , 44, 245-258		25
593	Superlinear convergence of the control reduced interior point method for PDE constrained optimization. <i>Computational Optimization and Applications</i> , 2008 , 39, 369-393	1.4	17

(2008-2008)

592	problems. <i>Computational Optimization and Applications</i> , 2008 , 41, 127-145	22
591	A Posteriori Error Estimates for Parabolic Variational Inequalities. 2008 , 37, 336-366	11
590	Mesh-independence of semismooth Newton methods for Lavrentiev-regularized state constrained nonlinear optimal control problems. 2008 , 108, 571-603	16
589	Adaptive finite element methods for the identification of distributed parameters in elliptic equation. 2008 , 29, 27-53	20
588	Semi-smooth Newton methods for the Signorini problem. 2008 , 53, 455-468	29
587	Non-linear dynamic contact of thin-walled structures. 2008 , 8, 10267-10268	
586	A stable energy-conserving approach for frictional contact problems based on quadrature formulas. 2008 , 73, 205-225	39
585	Efficient numerical methods for pricing American options under stochastic volatility. 2008 , 24, 104-126	93
584	On the interplay between interior point approximation and parametric sensitivities in optimal control. 2008 , 337, 771-793	
583	Semismooth Newton method for frictional contact between pseudo-rigid bodies. 2008 , 197, 2763-2777	22
582	Numerical Valuation of European and American Options under Kou's Jump-Diffusion Model. 2008 , 30, 1949-1970	54
581	Energy-Consistent CoRotational Schemes for Frictional Contact Problems. 2008 , 30, 2488-2511	4
580	Adaptive Finite Elements for Elliptic Optimization Problems with Control Constraints. 2008, 47, 509-534	72
579	Goal-Oriented Adaptivity in Control Constrained Optimal Control of Partial Differential Equations. 2008 , 47, 1721-1743	47
578	Newton-Like Solver for Elastoplastic Problems with Hardening and its Local Super-Linear Convergence. 2008 , 795-802	1
577	A Primal-Dual Active Set Algorithm for Three-Dimensional Contact Problems with Coulomb Friction. 2008 , 30, 572-596	119
576	Implicit RungeKutta Methods for Lipschitz Continuous Ordinary Differential Equations. 2008, 46, 1266-1280	11
575	A Fast Total Variation Minimization Method for Image Restoration. 2008 , 7, 774-795	150

574	Adaptive finite element methods for the solution of inverse problems in optical tomography. **Inverse Problems*, 2008*, 24, 034011** 2-3		61
573	Update strategies for perturbed nonsmooth equations. 2008 , 23, 321-343		4
572	An active-set equality constrained Newton solver with feasibility restoration for inverse coefficient problems in elliptic variational inequalities. <i>Inverse Problems</i> , 2008 , 24, 034017		13
571	A Simplified Approach to Semismooth Newton Methods in Function Space. <i>SIAM Journal on Optimization</i> , 2008 , 19, 1417-1432		9
570	A semismooth Newton method for Tikhonov functionals with sparsity constraints. <i>Inverse Problems</i> , 2008 , 24, 035007		59
569	Error estimates for the Lavrentiev regularization of elliptic optimal control problems. <i>Inverse</i> Problems, 2008 , 24, 055003		21
568	On the convergence speed of iterative methods for linear inverse problems with sparsity constraints. 2008 , 124, 012031		3
567	Back Matter. 2008 , 327-341		
566	Path following methods for steady laminar Bingham flow in cylindrical pipes. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2009 , 43, 81-117		13
565	On regularization methods for the numerical solution of parabolic control problems with pointwise state constraints. 2009 , 15, 426-453		18
564	Mesh-independence and preconditioning for solving parabolic control problems with mixed control-state constraints. 2009 , 15, 626-652		3
563	Algorithmic strategies for full waveform inversion: 1D experiments. 2009, 74, WCC37-WCC46		42
562	An overlapping domain decomposition method for the simulation of elastoplastic incremental forming processes. 2009 , 77, 1224-1246		6
561	An adaptive multi-scale approach to the modelling of masonry structures. 2009 , 78, 1135-1163		5
560	A finite deformation mortar contact formulation using a primaldual active set strategy. 2009 , 79, 1354-1391	1	96
559	Primal-dual interior-point methods for PDE-constrained optimization. <i>Mathematical Programming</i> , 2009, 117, 435-485		31
558	On a semi-smooth Newton method and its globalization. <i>Mathematical Programming</i> , 2009 , 118, 347-3702.1		21
557	A primal-dual active-set algorithm for bilaterally constrained total variation deblurring and piecewise constant Mumford-Shah segmentation problems. 2009 , 31, 237-266		16

(2009-2009)

556	Uzawa block relaxation domain decomposition method for a two-body frictionless contact problem. 2009 , 22, 1534-1538		13	
555	Nonlinear complementarity functions for plasticity problems with frictional contact. 2009 , 198, 3411-342	27	40	
554	A finite element procedure for rigorous numerical enclosures on the limit load in the analysis of multibody structures. 2009 , 199, 48-60		8	
553	A regularization method for the numerical solution of elliptic boundary control problems with pointwise state constraints. <i>Computational Optimization and Applications</i> , 2009 , 42, 43-66	1.4	24	
552	A virtual control concept for state constrained optimal control problems. <i>Computational Optimization and Applications</i> , 2009 , 43, 213-233	1.4	17	
551	Elliptic optimal control problems with L 1-control cost and applications for the placement of control devices. <i>Computational Optimization and Applications</i> , 2009 , 44, 159-181	1.4	137	
550	Regularization of state-constrained elliptic optimal control problems with nonlocal radiation interface conditions. <i>Computational Optimization and Applications</i> , 2009 , 44, 183-212	1.4	11	
549	POD a-posteriori error estimates for linear-quadratic optimal control problems. <i>Computational Optimization and Applications</i> , 2009 , 44, 83-115	1.4	91	
548	Strategies for time-dependent PDE control with inequality constraints using an integrated modeling and simulation environment. 2009 , 50, 241-269		18	
547	Regularized state-constrained boundary optimal control of the NavierBtokes equations. 2009 , 356, 257-2	279	6	
546	An adaptive multi-scale computational modelling of Clare College Bridge. 2009 , 198, 1839-1847		7	
545	Selection of regularization parameter in total variation image restoration. 2009 , 26, 2311-20		60	
544	Elastic-net regularization: error estimates and active set methods. <i>Inverse Problems</i> , 2009 , 25, 115022	2.3	40	
543	Barrier Methods for Optimal Control Problems with State Constraints. <i>SIAM Journal on Optimization</i> , 2009 , 20, 1002-1031	2	38	
542	Some Convergence Results for Howard's Algorithm. 2009 , 47, 3001-3026		71	
541	Nonsmooth Newton Methods for Set-Valued Saddle Point Problems. 2009 , 47, 1251-1273		15	
540	Solution of One-Time-Step Problems in Elastoplasticity by a Slant Newton Method. 2009 , 31, 1558-1580		24	
539	Lagrange Multiplier Approach with Optimized Finite Difference Stencils for Pricing American Options under Stochastic Volatility. 2009 , 31, 2646-2664		28	

538	A Nonsmooth Multiscale Method for Solving Frictional Two-Body Contact Problems in 2D and 3D with Multigrid Efficiency. 2009 , 31, 1399-1423		33
537	Mathematical Programs with Complementarity Constraints in Function Space: C- and Strong Stationarity and a Path-Following Algorithm. <i>SIAM Journal on Optimization</i> , 2009 , 20, 868-902	2	74
536	An Efficient Primal-Dual Method for \$L^1\$TV Image Restoration. 2009 , 2, 1168-1189		72
535	A semi-smooth Newton method for solving elliptic equations with gradient constraints. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2009 , 43, 209-238	1.8	6
534	Partial Differential Equations for Option Pricing. Handbook of Numerical Analysis, 2009, 15, 369-495	1	1
533	A semismooth Newton method for topology optimization. 2010 , 73, 1585-1595		3
532	3D fluidEtructure-contact interaction based on a combined XFEM FSI and dual mortar contact approach. 2010 , 46, 53-67		58
531	A shape and topology optimization technique for solving a class of linear complementarity problems in function space. <i>Computational Optimization and Applications</i> , 2010 , 46, 535-569	1.4	7
530	Combined interior-point method and semismooth Newton method for frictionless contact problems. 2010 , 81, 701-727		5
529	A dual mortar approach for 3D finite deformation contact with consistent linearization. 2010 , 83, 1428-	1465	92
528	Finite deformation frictional mortar contact using a semi-smooth Newton method with consistent linearization. 2010 , 84, 543-571		61
527	Semismooth Newton methods for variational problems with inequality constraints. 2010 , 33, 8-24		12
526	Discrete concepts versus error analysis in PDE-constrained optimization. 2010 , 33, 148-162		23
525	Algorithms for PDE-constrained optimization. 2010 , 33, 163-176		70
524	Computer simulation of diffusion processes with moving interface boundary. 2010 , 80, 1520-1535		1
523	A fixed-point approach to the limit load analysis of multibody structures with Coulomb friction. 2010 , 88, 859-869		5
522	Numerical simulation of two-dimensional Bingham fluid flow by semismooth Newton methods. Journal of Computational and Applied Mathematics, 2010 , 235, 11-32	2.4	21
521	A sensitivity-based extrapolation technique for the numerical solution of state-constrained optimal control problems. 2010 , 16, 503-522		2

(2011-2010)

520	An efficient two-phase L(1)-TV method for restoring blurred images with impulse noise. 2010 , 19, 1731-9	53
519	A Semismooth Newton Method for \$mathrm{L}^1\$ Data Fitting with Automatic Choice of Regularization Parameters and Noise Calibration. 2010 , 3, 199-231	36
518	PDE-Constrained Optimization Subject to Pointwise Constraints on the Control, the State, and Its Derivative. <i>SIAM Journal on Optimization</i> , 2010 , 20, 1133-1156	34
517	Solving Constrained Total-variation Image Restoration and Reconstruction Problems via Alternating Direction Methods. 2010 , 32, 2710-2736	163
516	Semismooth Newton Methods for Time-Optimal Control for a Class of ODEs. 2010 , 48, 3997-4013	24
515	An Inverse Problem in American Options as a Mathematical Program with Equilibrium Constraints: C-Stationarity and an Active-Set-Newton Solver. 2010 , 48, 4419-4452	5
514	Preconditioned Conjugate Gradient Method for Optimal Control Problems with Control and State Constraints. 2010 , 31, 2291-2317	73
513	. 2010,	34
512	Optimal Control for an Elliptic System with Polygonal State Constraints. 2010 , 48, 5053-5072	3
511	Error estimates for joint Tikhonov and Lavrentiev regularization of constrained control problems. 2010 , 89, 1679-1691	6
510	An adaptive finite-element MoreauMosida-based solver for a non-smooth CahnHilliard problem. 2011 , 26, 777-811	36
509	Obstacle Problems with Cohesion: A Hemivariational Inequality Approach and Its Efficient Numerical Solution. <i>SIAM Journal on Optimization</i> , 2011 , 21, 491-516	26
508	Semismooth Newton Methods for Optimal Control of the Wave Equation with Control Constraints. 2011 , 49, 830-858	31
507	Asymptotic Expansion for the Solutions of Control Constrained Semilinear Elliptic Problems with Interior Penalties. 2011 , 49, 2494-2517	6
506	Optimal Control of a Class of Variational Inequalities of the Second Kind. 2011 , 49, 1629-1658	24
505	A duality based semismooth Newton framework for solving variational inequalities of the second kind. 2011 , 437-462	10
504	A Convex and Exact Approach to Discrete Constrained TV-L1 Image Approximation. 2011 , 1, 172-186	6
503	On the superlinear convergence in computational elasto-plasticity. 2011 , 200, 3646-3658	20

502	Finite Deformation Contact Based on a 3D Dual Mortar and Semi-Smooth Newton Approach. 2011, 57-77		3
501	A Mixed Finite Element Scheme for Optimal Control Problems with Pointwise State Constraints. 2011 , 46, 182-203		30
500	Parallel Two-Grid Semismooth Newton-Krylov-Schwarz Method for Nonlinear Complementarity Problems. 2011 , 47, 258-280		6
499	Superrelaxation and the rate of convergence in minimizing quadratic functions subject to bound constraints. <i>Computational Optimization and Applications</i> , 2011 , 48, 23-44	4	14
498	A smooth penalty approach and a nonlinear multigrid algorithm for elliptic MPECs. <i>Computational Optimization and Applications</i> , 2011 , 50, 111-145	4	27
497	The semismooth Newton method for the solution of reactive transport problems including mineral precipitation-dissolution reactions. <i>Computational Optimization and Applications</i> , 2011 , 50, 193-221	4	11
496	Transient three-dimensional contact problems: mortar method. Mixed methods and conserving integration. 2011 , 48, 461-475		34
495	An interior point algorithm with inexact step computation in function space for state constrained optimal control. 2011 , 119, 373-407		19
494	The semismooth Newton method for multicomponent reactive transport with minerals. 2011 , 34, 137-151		25
493	A monotone semismooth Newton type method for a class of complementarity problems. <i>Journal of Computational and Applied Mathematics</i> , 2011 , 235, 1261-1274	4	27
492	Solving optimal control problems for the unsteady Burgers equation in COMSOL Multiphysics. <i>Journal of Computational and Applied Mathematics</i> , 2011 , 235, 4839-4850	4	8
491	A multigrid method for constrained optimal control problems. <i>Journal of Computational and Applied Mathematics</i> , 2011 , 235, 4368-4388	4	11
490	A Schwarz domain decomposition method with gradient projection for optimal control governed by elliptic partial differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2011 , 235, 5078-5	1 094	1 ²
489	Consistent treatment of boundaries with mortar contact formulations using dual Lagrange multipliers. 2011 , 200, 1317-1332		30
488	Numerical solutions of the m-membranes problem. 2011 , 16, 3475-3485		2
487	A new approach for phase transitions in miscible multi-phase flow in porous media. 2011 , 34, 957-966		45
486	Level set based multi-scale methods for large deformation contact problems. 2011, 61, 428-442		10
485	Fast optimization for multichannel total variation minimization with non-quadratic fidelity. 2011 , 91, 1933-1940		3

484	A hemivariational inequality in crack problems. 2011 , 60, 1071-1089	19
483	A duality-based approach to elliptic control problems in non-reflexive Banach spaces. 2011 , 17, 243-266	65
482	Solving the Cahn-Hilliard variational inequality with a semi-smooth Newton method. 2011 , 17, 931-954	16
481	Variationally consistent discretization schemes and numerical algorithms for contact problems*. 2011 , 20, 569-734	114
480	A damped semismooth Newton iterative method for solving mixed linear complementarity problems. 2012 , 27, 951-967	
479	On the unilateral contact between membranes. Part 2: a posteriori analysis and numerical experiments. 2012 , 32, 1147-1172	10
478	Multigrid Preconditioning of Linear Systems for Interior Point Methods Applied to a Class of Box-constrained Optimal Control Problems. 2012 , 50, 328-353	9
477	The semi-smooth Newton method for variationally discretized control constrained elliptic optimal control problems; implementation, convergence and globalization. 2012 , 27, 933-950	12
476	On the Use of Policy Iteration as an Easy Way of Pricing American Options. 2012 , 3, 459-478	18
475	L [fitting for inverse problems with uniform noise. <i>Inverse Problems</i> , 2012 , 28, 104007 2.3	33
475 474	L Ifitting for inverse problems with uniform noise. <i>Inverse Problems</i> , 2012 , 28, 104007 2.3 Partial Differential Equations in Finance. 2012 ,	33 0
474	Partial Differential Equations in Finance. 2012, A Semismooth Newton Method for Nonlinear Parameter Identification Problems with Impulsive	0
474 473	Partial Differential Equations in Finance. 2012, A Semismooth Newton Method for Nonlinear Parameter Identification Problems with Impulsive Noise. 2012, 5, 505-536	0 36
474 473 472	Partial Differential Equations in Finance. 2012, A Semismooth Newton Method for Nonlinear Parameter Identification Problems with Impulsive Noise. 2012, 5, 505-536 Directional Sparsity in Optimal Control of Partial Differential Equations. 2012, 50, 943-963 Regularization-Robust Preconditioners for Time-Dependent PDE-Constrained Optimization	o 36 64
474 473 472 471	Partial Differential Equations in Finance. 2012, A Semismooth Newton Method for Nonlinear Parameter Identification Problems with Impulsive Noise. 2012, 5, 505-536 Directional Sparsity in Optimal Control of Partial Differential Equations. 2012, 50, 943-963 Regularization-Robust Preconditioners for Time-Dependent PDE-Constrained Optimization Problems. 2012, 33, 1126-1152 Smoothing Technique of Nonsmooth Newton Methods for Control-State Constrained Optimal	o 36 64 67
474 473 472 471 470	Partial Differential Equations in Finance. 2012, A Semismooth Newton Method for Nonlinear Parameter Identification Problems with Impulsive Noise. 2012, 5, 505-536 Directional Sparsity in Optimal Control of Partial Differential Equations. 2012, 50, 943-963 Regularization-Robust Preconditioners for Time-Dependent PDE-Constrained Optimization Problems. 2012, 33, 1126-1152 Smoothing Technique of Nonsmooth Newton Methods for Control-State Constrained Optimal Control Problems. 2012, 50, 1982-2011 Penalty Methods for the Solution of Discrete HJB Equations@ontinuous Control and Obstacle	66679

466	Nonconvergence of the plain Newton-min algorithm for linear complementarity problems with a P-matrix. <i>Mathematical Programming</i> , 2012 , 134, 349-364	1	18
465	Optimization of mixed variational inequalities arising in flow of viscoplastic materials. Computational Optimization and Applications, 2012, 52, 757-784	4	17
464	The iteratively regularized GaussNewton method with convex constraints and applications in 4Pi microscopy. <i>Inverse Problems</i> , 2012 , 28, 015012	3	16
463	A Robust Preconditioned MinRes Solver for Distributed Time-Periodic Eddy Current Optimal Control Problems. 2012 , 34, B785-B809		30
462	A Sequential Minimization Technique for Elliptic Quasi-variational Inequalities with Gradient Constraints. <i>SIAM Journal on Optimization</i> , 2012 , 22, 1224-1257		20
461	Discretization of Optimal Control Problems. International Series of Numerical Mathematics, 2012, 391-430.	4	8
460	Application of a modified semismooth Newton method to some elasto-plastic problems. 2012 , 82, 2004-20	021	15
459	Constrained Optimization and Optimal Control for Partial Differential Equations. <i>International Series of Numerical Mathematics</i> , 2012 ,	4	17
458	Regularization for semilinear elliptic optimal control problems with pointwise state and control constraints. <i>Computational Optimization and Applications</i> , 2012 , 52, 181-207	4	9
457	Equilibration techniques for solving contact problems with Coulomb friction. 2012 , 205-208, 29-45		11
456	Solving dynamic contact problems with local refinement in space and time. 2012 , 201-204, 25-41		8
455	A mixed formulation of mortar-based frictionless contact. 2012 , 223-224, 173-185		20
454	Preconditioning for partial differential equation constrained optimization with control constraints. 2012 , 19, 53-71		22
453	A level-set-based large sliding contact algorithm for easy analysis of implant positioning. 2012 , 89, 1317-13	336	2
452	A combined BDF-semismooth Newton approach for time-dependent Bingham flow. 2012 , 28, 834-860		30
451	Multigrid second-order accurate solution of parabolic control-constrained problems. <i>Computational Optimization and Applications</i> , 2012 , 51, 835-866	4	9
450	A preconditioned MinRes solver for time-periodic parabolic optimal control problems. 2013 , 20, 761-784		20
449	An augmented Lagrangian technique combined with a mortar algorithm for modelling mechanical contact problems. 2013 , 93, 420-442		16

(2013-2013)

448	Separable Spherical Constraints and the Decrease of a Quadratic Function in the Gradient Projection Step. 2013 , 157, 132-140	8
447	Nonconvex TV\$^q\$-Models in Image Restoration: Analysis and a Trust-Region RegularizationBased Superlinearly Convergent Solver. 2013 , 6, 1385-1415	53
446	Recent Advances in Contact Mechanics. 2013,	1
445	Parabolic Quasi-variational Inequalities with Gradient-Type Constraints. <i>SIAM Journal on Optimization</i> , 2013 , 23, 2090-2123	12
444	An adaptive finite element Moreauliosida-based solver for a coupled CahnHilliard/NavierBtokes system. <i>Journal of Computational Physics</i> , 2013 , 235, 810-827	29
443	Analysis of Shape Optimization for Magnetic Microswimmers. 2013 , 51, 3093-3126	4
442	A semismooth Newton method for a class of semilinear optimal control problems with box and volume constraints. <i>Computational Optimization and Applications</i> , 2013 , 56, 369-403	2
441	A two-level domain decomposition algorithm for linear complementarity problem. 2013 , 2013,	
440	Efficient optimization of van der Waals parameters from bulk properties. 2013, 34, 2313-9	5
439	Preconditioned iteration for saddle-point systems with bound constraints arising in contact problems. 2013 , 254, 114-125	2
438	Numerical simulation of thermally convective viscoplastic fluids by semismooth second order type methods. 2013 , 193, 43-48	5
437	Improved robustness and consistency of 3D contact algorithms based on a dual mortar approach. 2013 , 264, 67-80	56
436	A mixed formulation of mortar-based contact with friction. 2013 , 255, 183-195	17
435	On persistent primary variables for numerical modeling of gas migration in a nuclear waste repository. 2013 , 17, 287-305	13
434	American Options. 2013 , 65-74	
433	All-at-once solution of time-dependent Stokes control. <i>Journal of Computational Physics</i> , 2013 , 232, 498- <u>5</u> .15	45
432	Semi-Smooth Newton Methods for Optimal Control of the Dynamical Lam (System with Control Constraints. 2013 , 34, 741-769	4
431	Optimal control for elliptic systems with pointwise euclidean norm constraints on the controls. Mathematical Programming, 2013 , 142, 461-483	6

430	Primal-dual active set methods for Allen©ahn variational inequalities with nonlocal constraints. 2013 , 29, 999-1030	23
429	Efficient Solvers for Some Classes of Time-Periodic Eddy Current Optimal Control Problems. 2013 , 203-216	3
428	Efficient solvers for multiharmonic eddy current optimal control problems with various constraints and their analysis. 2013 , 33, 1063-1094	2
427	A smoothed penalty iteration for state constrained optimal control problems for partial differential equations. 2013 , 62, 379-395	3
426	Nonlocal Allen-Cahn systems: analysis and a primal-dual active set method. 2013 , 33, 1126-1155	12
425	Two Domain Decomposition Methods for Auxiliary Linear Problems of a Multibody Elliptic Variational Inequality. 2013 , 35, A1350-A1375	6
424	Fast Iterative Solution of Reaction-Diffusion Control Problems Arising from Chemical Processes. 2013 , 35, B987-B1009	23
423	An Algorithmic Characterization of \$P\$-Matricity. 2013 , 34, 904-916	9
422	Convergence of adaptive FEM for some elliptic obstacle problem. 2013 , 92, 595-615	6
421	Numerical Methods and Applications in Total Variation Image Restoration. 2014 , 1-34	
421	Numerical Methods and Applications in Total Variation Image Restoration. 2014 , 1-34 Multi-scale sparse denoising model based on non-separable wavelet. 2014 ,	
		44
420	Multi-scale sparse denoising model based on non-separable wavelet. 2014, Simultaneous enforcement of constraints at position and velocity levels in the nonsmooth	14
420 419	Multi-scale sparse denoising model based on non-separable wavelet. 2014 , Simultaneous enforcement of constraints at position and velocity levels in the nonsmooth generalized 2014 , 281, 131-161 One-shot solution of a time-dependent time-periodic PDE-constrained optimization problem. 2014 ,	
420 419 418	Multi-scale sparse denoising model based on non-separable wavelet. 2014, Simultaneous enforcement of constraints at position and velocity levels in the nonsmooth generalized 2014, 281, 131-161 One-shot solution of a time-dependent time-periodic PDE-constrained optimization problem. 2014, 34, 1554-1577 Elliptic Mathematical Programs with Equilibrium Constraints in Function Space: Optimality	
419 418 417	Multi-scale sparse denoising model based on non-separable wavelet. 2014, Simultaneous enforcement of constraints at position and velocity levels in the nonsmooth generalized 2014, 281, 131-161 One-shot solution of a time-dependent time-periodic PDE-constrained optimization problem. 2014, 34, 1554-1577 Elliptic Mathematical Programs with Equilibrium Constraints in Function Space: Optimality Conditions and Numerical Realization. International Series of Numerical Mathematics, 2014, 133-153	14
419 418 417 416	Multi-scale sparse denoising model based on non-separable wavelet. 2014, Simultaneous enforcement of constraints at position and velocity levels in the nonsmooth generalized 2014, 281, 131-161 One-shot solution of a time-dependent time-periodic PDE-constrained optimization problem. 2014, 34, 1554-1577 Elliptic Mathematical Programs with Equilibrium Constraints in Function Space: Optimality Conditions and Numerical Realization. International Series of Numerical Mathematics, 2014, 133-153 A new semi-smooth Newton multigrid method for parabolic PDE optimal control problems. 2014,	14

412	A Posteriori Error Analysis of Optimal Control Problems with Control Constraints. 2014 , 52, 1832-1861		48
411	Trends in PDE Constrained Optimization. International Series of Numerical Mathematics, 2014,	0.4	6
410	Dual-weighted goal-oriented adaptive finite elements for optimal control of elliptic variational inequalities. 2014 , 20, 524-546		13
409	Mixed formulation and finite element treatment of the mass-conserving cavitation model. 2014 , 72, 143-155		11
408	Boundary element methods for variational inequalities. 2014 , 126, 173-197		14
407	A superlinearly convergent R-regularized Newton scheme for variational models with concave sparsity-promoting priors. <i>Computational Optimization and Applications</i> , 2014 , 57, 1-25	1.4	10
406	POD a-posteriori error analysis for optimal control problems with mixed control-state constraints. <i>Computational Optimization and Applications</i> , 2014 , 58, 619-644	1.4	10
405	The Bound-Constrained Conjugate Gradient Method for Non-negative Matrices. 2014 , 162, 931-953		4
404	Fast solution of CahnHilliard variational inequalities using implicit time discretization and finite elements. <i>Journal of Computational Physics</i> , 2014 , 262, 38-57	4.1	13
403	Discontinuous Galerkin Finite Element Approximation of HamiltonJacobiBellman Equations with Cordes Coefficients. 2014 , 52, 993-1016		49
402	A frictional mortar contact approach for the analysis of large inelastic deformation problems. 2014 , 51, 1697-1715		21
401	Efficient schemes for joint isotropic and anisotropic total variation minimization for deblurring images corrupted by impulsive noise. 2014 , 38, 108-116		2
400	A Primal Dual Active Set Algorithm With Continuation for Compressed Sensing. 2014 , 62, 6276-6285		26
399	2,Horm optimal model reduction for optimal control problems subject to parabolic and hyperbolic evolution equations. 2014 , 35, 501-523		
398	Fast Solvers for CahnHilliard Inpainting. 2014 , 7, 67-97		32
397	Indirect Multiple Shooting for Nonlinear Parabolic Optimal Control Problems with Control Constraints. 2014 , 36, A452-A481		11
396	Multigrid preconditioning of linear systems for semi-smooth Newton methods applied to optimization problems constrained by smoothing operators. 2014 , 29, 786-818		3
395	An interior penalty method for distributed optimal control problems governed by the biharmonic operator. <i>Computers and Mathematics With Applications</i> , 2014 , 68, 2205-2221	2.7	7

394	Operator Preconditioning for a Class of Inequality Constrained Optimal Control Problems. <i>SIAM Journal on Optimization</i> , 2014 , 24, 435-466	21
393	An all-at-once approach for the optimal control of the unsteady Burgers equation. <i>Journal of Computational and Applied Mathematics</i> , 2014 , 259, 771-779	13
392	A partition of unity method for the displacement obstacle problem of clamped Kirchhoff plates. Journal of Computational and Applied Mathematics, 2014 , 265, 3-16	8
391	Gas phase appearance and disappearance as a problem with complementarity constraints. 2014 , 99, 28-36	20
390	A partition of unity method for a class of fourth order elliptic variational inequalities. 2014 , 276, 612-626	20
389	A dual Lagrange method for contact problems with regularized contact conditions. 2014 , 99, 221-238	10
388	Approximating the Time Optimal Solution for Accessible Unknown Systems by Learning using a Virtual Output. 2014 , 47, 4140-4145	
387	Phase-field modeling of a fluid-driven fracture in a poroelastic medium. 2015 , 19, 1171-1195	97
386	An \$L^1\$ Penalty Method for General Obstacle Problems. 2015 , 75, 1424-1444	20
385	A Coherence Enhancing Penalty for Diffusion MRI: Regularizing Property and Discrete Approximation. 2015 , 8, 1874-1893	2
384	Preconditioning of Active-Set Newton Methods for PDE-constrained Optimal Control Problems. 2015 , 37, S472-S502	17
383	Preconditioning for Vector-Valued CahnHilliard Equations. 2015 , 37, S216-S243	6
382	A Semismooth Newton-CG Method for Constrained Parameter Identification in Seismic Tomography. 2015 , 37, S334-S364	22
381	Newton Methods for the Optimal Control of Closed Quantum Spin Systems. 2015 , 37, A319-A346	14
380	A FrameWork for the Error Analysis of Discontinuous Finite Element Methods for Elliptic Optimal Control Problems and Applications to C 0 IP Methods. 2015 , 36, 1388-1419	7
379	Back Matter. 2015 , 421-462	
378	Combined symmetric BEM and semi-smooth Newton method for the contact problems in linear elasticity of Yukawa type. 2015 , 269, 1007-1021	1
377	Reduced Basis Methods for Pricing Options with the BlackScholes and Heston Models. 2015 , 6, 685-712	11

376	A Multilevel Correction Method for Optimal Controls of Elliptic Equations. 2015 , 37, A2198-A2221		4
375	The R-linear convergence rate of an algorithm arising from the semi-smooth Newton method applied to 2D contact problems with friction. <i>Computational Optimization and Applications</i> , 2015 , 61, 437-461	1.4	5
374	A globally convergent primal-dual active-set framework for large-scale convex quadratic optimization. <i>Computational Optimization and Applications</i> , 2015 , 60, 311-341	1.4	25
373	On the density of classes of closed convex sets with pointwise constraints in Sobolev spaces. 2015 , 426, 585-593		13
372	A Semismooth Newton Multigrid Method for Constrained Elliptic Optimal Control Problems. 2015 , 397	7-405	
371	Segment-based vs. element-based integration for mortar methods in computational contact mechanics. 2015 , 55, 209-228		51
370	Post-processing procedures for an elliptic distributed optimal control problem with pointwise state constraints. 2015 , 95, 99-117		14
369	SKRYN: A fast semismooth-KrylovNewton method for controlling Ising spin systems. 2015 , 190, 213-22	23	4
368	A damped semismooth Newton method for the Brugnanollasulli piecewise linear system. 2015 , 55, 569-589		4
			A CONTRACTOR OF THE PARTY OF TH
367	Numerical Analysis and Optimization. 2015,		2
367 366	Numerical Analysis and Optimization. 2015, Several path-following methods for a class of gradient constrained variational inequalities. Computers and Mathematics With Applications, 2015, 69, 1045-1067	2.7	4
	Several path-following methods for a class of gradient constrained variational inequalities.	2.7	
366	Several path-following methods for a class of gradient constrained variational inequalities. Computers and Mathematics With Applications, 2015, 69, 1045-1067 A primal-dual active set method and predictor-corrector mesh adaptivity for computing fracture	2.7	4
366 365	Several path-following methods for a class of gradient constrained variational inequalities. Computers and Mathematics With Applications, 2015, 69, 1045-1067 A primal-dual active set method and predictor-corrector mesh adaptivity for computing fracture propagation using a phase-field approach. 2015, 290, 466-495 An unconstrained integral approximation of large sliding frictional contact between deformable	2.7	200
366 365 364	Several path-following methods for a class of gradient constrained variational inequalities. Computers and Mathematics With Applications, 2015, 69, 1045-1067 A primal-dual active set method and predictor-corrector mesh adaptivity for computing fracture propagation using a phase-field approach. 2015, 290, 466-495 An unconstrained integral approximation of large sliding frictional contact between deformable solids. 2015, 153, 75-90	2.7	200
366 365 364 363	Several path-following methods for a class of gradient constrained variational inequalities. Computers and Mathematics With Applications, 2015, 69, 1045-1067 A primal-dual active set method and predictor-corrector mesh adaptivity for computing fracture propagation using a phase-field approach. 2015, 290, 466-495 An unconstrained integral approximation of large sliding frictional contact between deformable solids. 2015, 153, 75-90 Study of Compositional Multi-Phase Flow Formulations with Cubic EOS. 2015, Generalized Nash Equilibrium Problems in Banach Spaces: Theory, NikaidoIsoda-Based	2	4 200 20 0
366 365 364 363 362	Several path-following methods for a class of gradient constrained variational inequalities. Computers and Mathematics With Applications, 2015, 69, 1045-1067 A primal-dual active set method and predictor-corrector mesh adaptivity for computing fracture propagation using a phase-field approach. 2015, 290, 466-495 An unconstrained integral approximation of large sliding frictional contact between deformable solids. 2015, 153, 75-90 Study of Compositional Multi-Phase Flow Formulations with Cubic EOS. 2015, Generalized Nash Equilibrium Problems in Banach Spaces: Theory, NikaidoIsoda-Based Path-Following Methods, and Applications. SIAM Journal on Optimization, 2015, 25, 1826-1856	2	4 200 20 0

358	Multiple Shooting and Time Domain Decomposition Methods. 2015,	4
357	A Feasible Active Set Method for Strictly Convex Quadratic Problems with Simple Bounds. <i>SIAM Journal on Optimization</i> , 2015 , 25, 1633-1659	11
356	A primal-dual active-set method for distributed Model Predictive Control. 2015,	5
355	Domain decomposition in time for PDE-constrained optimization. 2015 , 197, 136-143	13
354	Biorthogonal basis functions in hp-adaptive FEM for elliptic obstacle problems. <i>Computers and Mathematics With Applications</i> , 2015 , 70, 1721-1742	20
353	A dual Lagrange method for contact problems with regularized frictional contact conditions: Modelling micro slip. 2015 , 285, 468-487	17
352	A semi-smooth Newton method for orthotropic plasticity and frictional contact at finite strains. 2015 , 285, 228-254	17
351	A speciation solver for cement paste modeling and the semismooth Newton method. 2015 , 68, 139-147	8
350	Advances in Global Optimization. 2015,	1
349	A monotone Newton multisplitting method for the nonlinear complementarity problem with a nonlinear source term. 2015 , 92, 1292-1302	
348	Numerical identification of a sparse Robin coefficient. 2015 , 41, 131-148	4
347	An algorithm for total variation regularized photoacoustic imaging. 2015 , 41, 423-438	16
346	Second-order approximation and fast multigrid solution of parabolic bilinear optimization problems. 2015 , 41, 457-488	8
345	A new semi-smooth Newton multigrid method for control-constrained semi-linear elliptic PDE problems. 2016 , 64, 451-468	6
344	Preconditioned Solution of State Gradient Constrained Elliptic Optimal Control Problems. 2016 , 54, 688-718	3
343	An Inverse Source Problem with Sparsity Constraint for the Time-Fractional Diffusion Equation. 2016 , 8, 1-18	9
342	Three-dimensional numerical analysis of concrete-faced rockfill dam using dual-mortar finite element method with mixed tangential contact constraints. 2016 , 40, 2100-2122	24
341	NCP FunctionBased Dual Weighted Residual Error Estimators for Signorini's Problem. 2016 , 38, A1743-A176	92

340	Domain decomposition method for crack problems with nonpenetration condition. <i>ESAIM:</i> Mathematical Modelling and Numerical Analysis, 2016 , 50, 995-1009	1.8	15
339	A Fast Solver for an H1 Regularized PDE-Constrained Optimization Problem. 2016 , 19, 143-167		5
338	A Goal-Oriented Adaptive Moreau-Yosida Algorithm for Control- and State-Constrained Elliptic Control Problems. 2016 , 8, 426-448		1
337	Pressure and fluid-driven fracture propagation in porous media using an adaptive finite element phase field model. 2016 , 305, 111-132		161
336	Analysis of two active set type methods to solve unilateral contact problems. 2016 , 284, 286-307		6
335	The Nonnegative Matrix Factorization: Regularization and Complexity. 2016 , 38, B327-B346		
334	A Nonconforming Finite Element Approximation for Optimal Control of an Obstacle Problem. 2016 , 16, 653-666		3
333	Semi-smooth Newton methods for mixed FEM discretizations of higher-order for frictional, elasto-plastic two-body contact problems. 2016 , 309, 131-151		3
332	Active-Set Reduced-Space Methods with Nonlinear Elimination for Two-Phase Flow Problems in Porous Media. 2016 , 38, B593-B618		31
331	Optimal-Order Preconditioners for Linear Systems Arising in the Semismooth Newton Solution of a Class of Control-Constrained Problems. 2016 , 37, 1038-1070		6
330	Regularized Newton methods for x-ray phase contrast and general imaging problems. 2016 , 24, 6490-5	06	35
329	Globally Convergent Primal-Dual Active-Set Methods with Inexact Subproblem Solves. <i>SIAM Journal on Optimization</i> , 2016 , 26, 2261-2283	2	
328	A (varvec{C}^0) Interior Penalty Method for Elliptic Distributed Optimal Control Problems in Three Dimensions with Pointwise State Constraints. 2016 , 1-22		10
327	Efficient numerical methods for the large-scale, parallel solution of elastoplastic contact problems. 2016 , 105, 416-439		6
326	Rapid Solution of Minimal Riesz Energy Problems. 2016 , 32, 1535-1552		
325	Global minima for semilinear optimal control problems. <i>Computational Optimization and Applications</i> , 2016 , 65, 261-288	1.4	12
324	A family of second-order methods for convex (ell _1)-regularized optimization. <i>Mathematical Programming</i> , 2016 , 159, 435-467	2.1	20
323	Isogeometric dual mortar methods for computational contact mechanics. 2016 , 301, 259-280		58

322	A stabilized finite element method for the convection dominated diffusion optimal control problem. 2016 , 95, 2807-2823		4
321	Low-rank solvers for unsteady Stokes B rinkman optimal control problem with random data. 2016 , 304, 26-54		25
320	A bundle-free implicit programming approach for a class of elliptic MPECs in function space. <i>Mathematical Programming</i> , 2016 , 160, 271-305	2.1	10
319	A LONE code for the sparse control of quantum systems. 2016 , 200, 312-323		9
318	Variationally consistent quadratic finite element contact formulations for finite deformation contact problems on rough surfaces. 2016 , 109, 37-53		4
317	A stable and linear time discretization for a thermodynamically consistent model for two-phase incompressible flow. 2016 , 99, 151-171		35
316	Optimal control of elliptic PDEs at points. 2016 , 36, 1015-1050		7
315	A duality-based path-following semismooth Newton method for elasto-plastic contact problems. Journal of Computational and Applied Mathematics, 2016 , 292, 150-173	2.4	11
314	A leapfrog semi-smooth Newton-multigrid method for semilinear parabolic optimal control problems. <i>Computational Optimization and Applications</i> , 2016 , 63, 69-95	1.4	8
313	A note on functional a posteriori estimates for elliptic optimal control problems. 2017 , 33, 403-424		3
312	A primal-dual active-set method for distributed model predictive control. 2017, 38, 399-419		11
311	An Optimal Shape Design Problem for Plates. 2017 , 55, 109-130		1
310	An A Posteriori Analysis of \$C^0\$ Interior Penalty Methods for the Obstacle Problem of Clamped Kirchhoff Plates. 2017 , 55, 87-108		10
309	Total Variation Based Parameter-Free Model for Impulse Noise Removal. 2017 , 10, 186-204		2
308	Computation of Time Optimal Control Problems Governed by Linear Ordinary Differential Equations. 2017 , 73, 1-25		16
307	An Error Analysis of a Finite Element Method with IMEX-Time Semidiscretizations for Some Partial Integro-differential Inequalities Arising in the Pricing of American Options. 2017 , 55, 869-891		8
306	Numerical analysis of strongly nonlinear PDEs *. 2017 , 26, 137-303		29
305	An Extension of the Projected Gradient Method to a Banach Space Setting with Application in Structural Topology Optimization. 2017 , 55, 1481-1499		7

304	Adaptive Symmetric Interior Penalty Galerkin Method for Boundary Control Problems. 2017, 55, 1101-1	133	4
303	A dual gradient-projection method for large-scale strictly convex quadratic problems. <i>Computational Optimization and Applications</i> , 2017 , 67, 1-38	1.4	4
302	Nonconvex penalization of switching control of partial differential equations. 2017, 106, 1-8		14
301	Learning optimal spatially-dependent regularization parameters in total variation image denoising. <i>Inverse Problems</i> , 2017 , 33, 074005	2.3	13
300	On Finite Element Formulations for the Obstacle Problem Mixed and Stabilised Methods. 2017 , 17, 413-429		5
299	Augmented Lagrangians, box constrained QP and extensions. 2017 , 37, 1635-1656		3
298	An Efficient Primal-Dual Method for the Obstacle Problem. 2017 , 73, 416-437		7
297	Nonlinearly preconditioned semismooth Newton methods for variational inequality solution of two-phase flow in porous media. <i>Journal of Computational Physics</i> , 2017 , 332, 1-20	4.1	25
296	Primal-Dual Active Set Method for American Lookback Put Option Pricing. 2017, 7, 603-614		4
295	Learning Non-Negativity Constrained Variation for Image Denoising and Deblurring. 2017, 10, 852-871		2
294	Fully Adaptive and Integrated Numerical Methods for the Simulation and Control of Variable Density Multiphase Flows Governed by Diffuse Interface Models. 2017 , 305-353		
293	Preconditioning PDE-constrained optimization with L1-sparsity and control constraints. <i>Computers and Mathematics With Applications</i> , 2017 , 74, 1059-1075	2.7	10
292	Mixed and Stabilized Finite Element Methods for the Obstacle Problem. 2017, 55, 2718-2744		14
291	Adaptive finite element method for elliptic optimal control problems: convergence and optimality. 2017 , 135, 1121-1170		23
290	Adaptive Multilevel Correction Method for Finite Element Approximations of Elliptic Optimal Control Problems. 2017 , 72, 820-841		3
289	Projection and self-adaptive projection methods for the Signorini problem with the BEM. <i>Computers and Mathematics With Applications</i> , 2017 , 74, 1262-1273	2.7	9
288	Finite element modeling of wear using the dissipated energy method coupled with a dual mortar contact formulation. 2017 , 191, 62-79		11
287	Alternative integration algorithms for three-dimensional mortar contact. 2017 , 59, 203-218		7

286	An implicit finite wear contact formulation based on dual mortar methods. 2017 , 111, 325-353	7
285	Primal-dual active set strategy for large scale optimization of cardiac defibrillation. 2017 , 292, 178-193	5
284	A preconditioned descent algorithm for variational inequalities of the second kind involving the p-Laplacian operator. <i>Computational Optimization and Applications</i> , 2017 , 66, 123-162	7
283	Joint perimeter and signal control of urban traffic via network utility maximization. 2017,	4
282	Computational Contact Mechanics with the Finite Element Method. 2017, 1-45	5
281	Entropy Driven Height Profile Estimation with Multiple UAVs under Sparsity Constraints. 2017,	O
280	A Harmonic Resonance Suppression Strategy for a High-Speed Railway Traction Power Supply System with a SHE-PWM Four-Quadrant Converter Based on Active-Set Secondary Optimization. 2017 , 10, 1567	11
279	Comparisons of the semi-smooth Newton method for solving contact problems in 2D and 3D. 2017 ,	
278	Calibration to American options: numerical investigation of the de-Americanization method. 2018 , 18, 1091-1113	0
277	Energy corrected FEM for optimal Dirichlet boundary control problems. 2018 , 139, 913-938	5
276	Magnetic Resonance RF Pulse Design by Optimal Control With Physical Constraints. 2018, 37, 461-472	12
275	Optimization methods for Dirichlet control problems. 2018 , 67, 585-617	6
274	An active-set mixed finite element solver for a transient hydrodynamic lubrication problem in the presence of cavitation. 2018 , 98, 999-1014	
273	Form-Finding of Large Deployable Mesh Reflectors with Elastic Deformations of Supporting Structures. 2018 ,	9
272	Inhomogeneous Dirichlet boundary condition in the a posteriori error control of the obstacle problem. <i>Computers and Mathematics With Applications</i> , 2018 , 75, 2311-2327	4
271	Distributed Model Predictive Control for Forced-Air Systems. 2018 , 167-189	1
270	Numerical evaluation of soft inter-slab joint in concrete-faced rockfill dam with dual mortar finite element method. 2018 , 42, 781-805	13
269	A Shape Optimization Algorithm for Interface Identification Allowing Topological Changes. 2018 , 177, 306-328	

268	Algebraic multigrid preconditioners for two-phase flow in porous media with phase transitions. 2018 , 114, 19-28	15
267	Inverse problems with nonnegative and sparse solutions: algorithms and application to the phase retrieval problem. <i>Inverse Problems</i> , 2018 , 34, 055007	1
266	Pricing American call options under a hard-to-borrow stock model. 2018 , 29, 494-514	4
265	A primal-dual active set method for solving multi-rigid-body dynamic contact problems. 2018 , 23, 489-503	3
264	A mixed variational formulation for a class of contact problems in viscoelasticity. 2018 , 97, 1340-1356	9
263	Nonsmooth continuation of parameter dependent static contact problems with Coulomb friction. 2018 , 145, 62-78	2
262	Approximations and generalized Newton methods. <i>Mathematical Programming</i> , 2018 , 168, 673-716 2.1	8
261	Optimizing the Kelvin force in a moving target subdomain. 2018 , 28, 95-130	9
260	A multigrid optimization algorithm for the numerical solution of quasilinear variational inequalities involving thep-Laplacian. <i>Computers and Mathematics With Applications</i> , 2018 , 75, 1107-1127	1
259	Algebraic multigrid methods for dual mortar finite element formulations in contact mechanics. 2018 , 114, 399-430	9
258	A mortar finite element approach for point, line, and surface contact. 2018 , 114, 255-291	8
257	A wavelet-based adaptive mesh refinement method for the obstacle problem. 2018 , 34, 577-589	2
256	A self-adaptive projection method for contact problems with the BEM. 2018 , 55, 145-159	10
255	A scalable fully implicit framework for reservoir simulation on parallel computers. 2018 , 330, 334-350	18
254	The semi-smooth Newton method for solving the Stokes problem with the stick-slip boundary condition. 2018 ,	3
253	Measure Control of a Semilinear Parabolic Equation with a Nonlocal Time Delay. 2018, 56, 4434-4460	
252	Investigation of Stress Field and Fracture Development During Shale Maturation Using Analog Rock Systems. 2018 ,	1
251	An efficient preconditioning method for state box-constrained optimal control problems. 2018 , 26, 185-207	7

250	Frontiers in PDE-Constrained Optimization. 2018,	9
249	Numerical Optimization Methods for the Optimal Control of Elliptic Variational Inequalities. 2018, 123-170	1
248	A morley finite element method for an elliptic distributed optimal control problem with pointwise state and control constraints. 2018 , 24, 1181-1206	4
247	Generalizing Diffuse Interface Methods on Graphs: Nonsmooth Potentials and Hypergraphs. 2018 , 78, 1350-1377	9
246	Contact Modeling for Solids and Particles. 2018 ,	7
245	State-of-the-Art Computational Methods for Finite Deformation Contact Modeling of Solids and Structures. 2018 , 1-86	2
244	\$C^0\$ Interior Penalty Methods for an Elliptic Distributed Optimal Control Problem on Nonconvex Polygonal Domains with Pointwise State Constraints. 2018 , 56, 1758-1785	12
243	Controlling the Kelvin force: basic strategies and applications to magnetic drug targeting. 2018 , 19, 559-589	12
242	Bio-inspired computational heuristics for Sisko fluid flow and heat transfer models. 2018 , 71, 622-648	24
241	A PDE-constrained optimization approach for topology optimization of strained photonic devices. 2018 , 19, 521-557	2
240	Quasi-solution of linear inverse problems in non-reflexive Banach spaces. 2018 , 26, 689-702	3
239	Bubbles Enriched Quadratic Finite Element Method for the 3D-Elliptic Obstacle Problem. 2018 , 18, 223-236	4
238	On the Constraints Formulation in the Nonsmooth Generalized-(alpha) Method. 2018 , 335-374	5
237	Stokes system with local Coulomb slip boundary conditions: Analysis of discretized models and implementation. <i>Computers and Mathematics With Applications</i> , 2019 , 77, 1655-1667	3
236	On Lifting Operators and Regularity of Nonsmooth Newton Methods for Optimal Control Problems of Differential Algebraic Equations. 2019 , 180, 518-535	
235	An Algorithmic Characterization of P-matricity II: Adjustments, Refinements, and Validation. 2019 , 40, 800-813	10
234	Conforming and discontinuous Galerkin FEM in space for solving parabolic obstacle problem. Computers and Mathematics With Applications, 2019, 78, 3896-3915	2
233	A semismooth Newton method with analytical path-following for the \$H^1\$-projection onto the Gibbs simplex. 2019 , 39, 1276-1295	4

232	Generating structured nonsmooth priors and associated primal-dual methods. <i>Handbook of Numerical Analysis</i> , 2019 , 437-502	1	4
231	Path-following and semismooth Newton methods for the variational inequality arising from two membranes problem. 2019 , 2019, 1		74
230	PDE acceleration: a convergence rate analysis and applications to obstacle problems. <i>Research in Mathematical Sciences</i> , 2019 , 6, 1	1.5	5
229	The semi-smooth Newton method for solving the Stokes flow under the leak boundary condition. 2019 ,		
228	An Approximate Quadratic Programming for Efficient Bellman Equation Solution. 2019 , 7, 126077-12608	37	
227	Finite Element Methods for Partial Differential Equations for Option Pricing. 2019,		
226	The semi-smooth Newton method for solving the Stokes flow with Coulomb slip boundary conditions. 2019 ,		
225	A lower bound on the iterative complexity of the Harker and Pang globalization technique of the Newton-min algorithm for solving the linear complementarity problem. 2019 , 7, 359-380		2
224	Study of compositional multiphase flow formulation using complementarity conditions. 2019, 74, 43		4
223	Truncated nonsmooth Newton multigrid methods for block-separable minimization problems. 2019 , 39, 454-481		5
222	The effect of stress boundary conditions on fluid-driven fracture propagation in porous media using a phase-field modeling approach. 2019 , 43, 1316-1340		14
221	Mesh and model adaptivity for frictional contact problems. 2019 , 142, 465-523		1
220	Regularity analyses and approximation of nonlocal variational equality and inequality problems. 2019 , 478, 1027-1048		8
219	Nonsmooth Newton Method: Some Structure Exploitation. <i>Lecture Notes in Computer Science</i> , 2019 , 409-420	0.9	
218	On penalization in variational phase-field models of brittle fracture. 2019 , 354, 990-1026		49
217	Novel applications of intelligent computing paradigms for the analysis of nonlinear reactive transport model of the fluid in soft tissues and microvessels. 2019 , 31, 9041-9059		82
216	A FE-ADMM algorithm for Lavrentiev-regularized state-constrained elliptic control problem. 2019 , 25, 5		2
215	Mixed Finite Element Approximation of the HamiltonJacobiBellman Equation with Cordes Coefficients. 2019 , 57, 592-614		8

214	The Primal-Dual Active Set Method for a Class of Nonlinear Problems with T-Monotone Operators. 2019 , 2019, 1-8		Ο
213	Convergence analysis of finite element method for a parabolic obstacle problem. <i>Journal of Computational and Applied Mathematics</i> , 2019 , 357, 85-102	2.4	3
212	Two fast finite difference schemes for elliptic Dirichlet boundary control problems. 2019 , 61, 481-503		1
211	The Ivanov regularized GaussNewton method in Banach space with an a posteriori choice of the regularization radius. 2019 , 27, 539-557		2
21 0	Convergent Two-Scale Filtered Scheme for the MongeAmple Equation. 2019 , 41, B295-B319		
209	Optimization of a Multiphysics Problem in Semiconductor Laser Design. 2019 , 79, 257-283		3
208	On the uniqueness of non-reducible multi-player control problems. 2019 , 1-30		1
207	A perfect reconstruction property for PDE-constrained total-variation minimization with application in Quantitative Susceptibility Mapping. 2019 , 25, 83		5
206	An Inexact Uzawa Algorithmic Framework for Nonlinear Saddle Point Problems with Applications to Elliptic Optimal Control Problem. 2019 , 57, 2656-2684		3
205	A state of art review on the modeling of Contact type Nonlinearities by Extended Finite Element method. 2019 , 18, 3462-3471		8
204	Preconditioners and Tensor Product Solvers for Optimal Control Problems from Chemotaxis. 2019 , 41, B1228-B1253		2
203	An Error Analysis of Discontinuous Finite Element Methods for the Optimal Control Problems Governed by Stokes Equation. 2019 , 40, 421-460		4
202	Numerical solution of time-dependent component with sparse structure of source term for a time fractional diffusion equation. <i>Computers and Mathematics With Applications</i> , 2019 , 77, 1408-1422	2.7	2
201	The fixed nodal position method for form finding of high-precision lightweight truss structures. 2019 , 161, 82-95		26
200	Complexity and convergence certification of a block principal pivoting method for box-constrained quadratic programs. 2019 , 100, 29-37		13
199	Solution Approaches and Sensitivity Analysis of Variational Inequalities. 2019,		O
198	C0 interior penalty methods for an elliptic state-constrained optimal control problem with Neumann boundary condition. <i>Journal of Computational and Applied Mathematics</i> , 2019 , 350, 212-232	2.4	10
197	Hybridization and stabilization for hp-finite element methods. 2019 , 136, 66-102		4

(2020-2019)

196	Intelligent computing approach to analyze the dynamics of wire coating with Oldroyd 8-constant fluid. 2019 , 31, 751-775	25
195	P 1 finite element methods for an elliptic optimal control problem with pointwise state constraints. 2020 , 40, 1-28	6
194	Deflation for semismooth equations. 2020 , 35, 1248-1271	4
193	On the inexact symmetrized globally convergent semi-smooth Newton method for 3D contact problems with Tresca friction: the R-linear convergence rate. 2020 , 35, 65-86	3
192	Primal-dual active set method for pricing American better-of option on two assets. 2020 , 80, 104976	14
191	Mathematical analysis and numerical solution of models with dynamic Preisach hysteresis. <i>Journal of Computational and Applied Mathematics</i> , 2020 , 367, 112452	7
190	Alternating direction method of multiplier for the unilateral contact problem with an automatic penalty parameter selection. 2020 , 78, 706-723	
189	A two-level additive Schwarz method for a kind of tensor complementarity problem. 2020 , 584, 394-408	О
188	Investigation of Stress Field and Fracture Development During Shale Maturation Using Analog Rock Systems. 2020 , 131, 503-535	5
187	CrouzeixRaviart Finite Element Approximation for the Parabolic Obstacle Problem. 2020 , 20, 273-292	1
186	First-order least-squares method for the obstacle problem. 2020 , 144, 55-88	2
185	Mesh adaptivity for quasi-static phase-field fractures based on a residual-type a posteriori error estimator. 2020 , 43, e202000003	11
184	A fuzzy system based active set algorithm for the numerical solution of the optimal control problem governed by partial differential equation. 2020 , 54, 99-110	8
183	Semi-smooth Newton methods for nonlinear complementarity formulation of compositional two-phase flow in porous media. <i>Journal of Computational Physics</i> , 2020 , 407, 109163	3
182	Interior-point methods and preconditioning for PDE-constrained optimization problems involving sparsity terms. 2020 , 27, e2276	7
181	Integrated meta-heuristics finite difference method for the dynamics of nonlinear unipolar electrohydrodynamic pump flow model. 2020 , 97, 106791	21
180	A BDF2-semismooth Newton algorithm for the numerical solution of the Bingham flow with temperature dependent parameters. 2020 , 284, 104380	
179	A posteriori estimates distinguishing the error components and adaptive stopping criteria for numerical approximations of parabolic variational inequalities. 2020 , 367, 113105	3

178	P1 finite element methods for an elliptic state-constrained distributed optimal control problem with Neumann boundary conditions. 2020 , 8, 100090		7
177	Heuristic discrepancy principle for variational regularization of inverse problems. <i>Inverse Problems</i> , 2020 , 36, 075013	2.3	
176	Matrix-free multigrid solvers for phase-field fracture problems. 2020 , 372, 113431		9
175	Parallel Matrix-Free Higher-Order Finite Element Solvers for Phase-Field Fracture Problems. 2020 , 25, 40		1
174	Contact between rough rock surfaces using a dual mortar method. 2020, 133, 104414		3
173	Adaptive Inexact Semismooth Newton Methods for the Contact Problem Between Two Membranes. 2020 , 84, 1		3
172	A polynomial algorithm for best-subset selection problem. 2020 , 117, 33117-33123		9
171	A convergence analysis of semi-discrete and fully-discrete nonconforming FEM for the parabolic obstacle problem. 2020 , 1-28		O
170	Wavelet-based approximations of pointwise bound constraints in Lebesgue and Sobolev spaces. 2020 ,		O
169	A Parallel-In-Time Block-Circulant Preconditioner for Optimal Control of Wave Equations. 2020 , 42, A1	510-A 1	1540
168	Efficient iterative solution of finite element discretized nonsmooth minimization problems. <i>Computers and Mathematics With Applications</i> , 2020 , 80, 588-603	2.7	3
167	IPACS: Integrated Phase-Field Advanced Crack Propagation Simulator. An adaptive, parallel, physics-based-discretization phase-field framework for fracture propagation in porous media. 2020 , 367, 113124		21
166	A cubic C0 interior penalty method for elliptic distributed optimal control problems with pointwise state and control constraints. 2020 , 7, 100119		3
165	The inverse problem of reconstructing reaction diffusion systems. <i>Inverse Problems</i> , 2020 , 36, 065011	2.3	13
164	Hybrid High-Order Methods for the Elliptic Obstacle Problem. 2020 , 83, 1		2
163			
	Nonlinearly preconditioned constraint-preserving algorithms for subsurface three-phase flow with capillarity. 2020 , 367, 113140		6
162			2

(2021-2020)

160	A Nitsche-based formulation for fluid-structure interactions with contact. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2020 , 54, 531-564	1.8	13
159	The MongeAmpRe equation. <i>Handbook of Numerical Analysis</i> , 2020 , 21, 105-219	1	1
158	Dual finite-element analysis using second-order cone programming for structures including contact. 2020 , 208, 109892		7
157	A contact algorithm for cohesive cracks in the extended finite element method. 2020 , 121, 2747-2766		6
156	Low-rank solution of an optimal control problem constrained by random Navier-Stokes equations. 2020 , 92, 1653-1678		1
155	A sequential homotopy method for mathematical programming problems. <i>Mathematical Programming</i> , 2021 , 187, 459-486	2.1	1
154	A Neural Network-Based Policy Iteration Algorithm with Global (H^2)-Superlinear Convergence for Stochastic Games on Domains. 2021 , 21, 331-374		5
153	An element-free Galerkin method for the obstacle problem. 2021 , 112, 106724		24
152	Modeling interactions of natural and two-phase fluid-filled fracture propagation in porous media. 2021 , 25, 731-755		6
151	GoalBriented a posteriori error estimation for Dirichlet boundary control problems. <i>Journal of</i>		
1)1	Computational and Applied Mathematics, 2021 , 381, 113012	2.4	
150		2.4	2
	Computational and Applied Mathematics, 2021, 381, 113012 Backward differentiation formula finite difference schemes for diffusion equations with an	4.1	2
150	Computational and Applied Mathematics, 2021, 381, 113012 Backward differentiation formula finite difference schemes for diffusion equations with an obstacle term. 2021, 41, 900-934		2 15
150 149	Computational and Applied Mathematics, 2021, 381, 113012 Backward differentiation formula finite difference schemes for diffusion equations with an obstacle term. 2021, 41, 900-934 Preconditioning nonlocal multi-phase flow. Journal of Computational Physics, 2021, 424, 109715		
150 149 148	Backward differentiation formula finite difference schemes for diffusion equations with an obstacle term. 2021, 41, 900-934 Preconditioning nonlocal multi-phase flow. <i>Journal of Computational Physics</i> , 2021, 424, 109715 Interior-point methods for the phase-field approach to brittle and ductile fracture. 2021, 375, 113612 A virtual interface-coupled extended finite element method for three-dimensional contact		15
150 149 148	Backward differentiation formula finite difference schemes for diffusion equations with an obstacle term. 2021, 41, 900-934 Preconditioning nonlocal multi-phase flow. <i>Journal of Computational Physics</i> , 2021, 424, 109715 Interior-point methods for the phase-field approach to brittle and ductile fracture. 2021, 375, 113612 A virtual interface-coupled extended finite element method for three-dimensional contact problems. 2021, 122, 386-402 Reformulation of the M-Stationarity Conditions as a System of Discontinuous Equations and Its	4.1	15 5
150 149 148 147 146	Backward differentiation formula finite difference schemes for diffusion equations with an obstacle term. 2021, 41, 900-934 Preconditioning nonlocal multi-phase flow. <i>Journal of Computational Physics</i> , 2021, 424, 109715 Interior-point methods for the phase-field approach to brittle and ductile fracture. 2021, 375, 113612 A virtual interface-coupled extended finite element method for three-dimensional contact problems. 2021, 122, 386-402 Reformulation of the M-Stationarity Conditions as a System of Discontinuous Equations and Its Solution by a Semismooth Newton Method. <i>SIAM Journal on Optimization</i> , 2021, 31, 1459-1488 An Effective Link-based Clustering Algorithm for Detecting Overlapping Protein Complexes in	4.1	15 5 1

142	On quantitative stability in infinite-dimensional optimization under uncertainty. 2021 , 15, 2733-2756	1
141	Phase-field modeling of rate-dependent fluid-driven fracture initiation and propagation. 2021 , 45, 1029-1048	3
140	A computationally tractable framework for nonlinear dynamic multiscale modeling of membrane woven fabrics. 2021 , 122, 2598-2625	4
139	On a Robust and Efficient Numerical Scheme for the Simulation of Stationary 3-Component Systems with Non-Negative Species-Concentration with an Application to the Cu Deposition from a Cu-(Halanine)-Electrolyte. 2021 , 14, 113	2
138	Two new approaches for solving elliptic obstacle problems using discontinuous Galerkin methods. 1	0
137	Algebraic multigrid methods for saddle point systems arising from mortar contact formulations. 2021 , 122, 3749-3779	4
136	A Unified Primal Dual Active Set Algorithm for Nonconvex Sparse Recovery. 2021, 36,	8
135	A quasi-monolithic phase-field description for mixed-mode fracture using predictorflorrector mesh adaptivity. 1	3
134	A unified framework for high-order numerical discretizations of variational inequalities. <i>Computers and Mathematics With Applications</i> , 2021 , 92, 62-75	0
133	A ?1 Finite Element Method for a Distributed Elliptic Optimal Control Problem with a General State Equation and Pointwise State Constraints. 2021 , 21, 777-790	O
132	Computational homogenisation of phase-field fracture. 2021 , 88, 104247	5
131	A convex anisotropic damage model based on the compliance tensor. 105678952110190	4
130	Two-scale methods for convex envelopes.	
129	On a nonlocal Cahn⊞illiard model permitting sharp interfaces. 2021 , 31, 1749-1786	3
128	A penalty scheme and policy iteration for nonlocal HJB variational inequalities with monotone nonlinearities. <i>Computers and Mathematics With Applications</i> , 2021 , 93, 199-213	
127	A dual-primal finite element tearing and interconnecting method for nonlinear variational inequalities utilizing linear local problems. 2021 , 122, 6455	1
126	Mechanisms of creep in shale from nanoscale to specimen scale. 2021 , 136, 104138	4
125	Morley finite element method for the von Kāmā obstacle problem. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021 , 55, 1873-1894	O

124	Additive Schwarz preconditioners for C0 interior penalty methods for the obstacle problem of clamped Kirchhoff plates. 2022 , 38, 102		O
123	Aseismic Multifissure Modeling in Unfaulted Heavily Pumped Basins: Mechanisms and Applications. 2021 , 57, e2021WR030127		O
122	Parallelized POD-based suboptimal economic model predictive control of a state-constrained Boussinesq approximation. <i>Computers and Mathematics With Applications</i> , 2021 ,	2.7	O
121	An index detecting algorithm for a class of TCP(A,q) equipped with nonsingular M-tensors. <i>Journal of Computational and Applied Mathematics</i> , 2021 , 394, 113548	2.4	O
120	Bound-preserving inexact Newton algorithms on parallel computers for wormhole propagation in porous media. 2021 , 138, 104340		O
119	The virtual element method for an obstacle problem of a Kirchhoff-Love plate. 2021 , 103, 106008		2
118	A semi-smooth Newton and Primal D ual Active Set method for Non-Smooth Contact Dynamics. 2021 , 387, 114153		0
117	Computing Multiple Solutions of Topology Optimization Problems. 2021 , 43, A1555-A1582		2
116	Inexact primaldual active set method for solving elastodynamic frictional contact problems. <i>Computers and Mathematics With Applications</i> , 2021 , 82, 36-59	2.7	8
115	Finite Difference Methods for Early Exercise Options.		4
114	From inexact active set strategies to nonlinear multigrid methods. 2006 , 13-21		7
113	Optimization of Sheet Metal Products. 2006 , 327-336		2
112	Numerical Methods and Applications in Total Variation Image Restoration. 2011, 1059-1094		7
111	An Operator Splitting Method for Pricing American Options. 2008 , 279-292		1
110	A Brief Introduction to PDE-Constrained Optimization. 2018, 3-40		2
109	POD-Based Economic Optimal Control of Heat-Convection Phenomena. 2018, 63-87		1
108	Numerical Implementation of Phase-Field Models of Brittle Fracture. 2020 , 75-101		5
107	A Posteriori Error Representations for Elliptic Optimal Control Problems with Control and State Constraints. <i>International Series of Numerical Mathematics</i> , 2012 , 303-317	0.4	6

106	Allen-Cahn and Cahn-Hilliard Variational Inequalities Solved with Optimization Techniques. <i>International Series of Numerical Mathematics</i> , 2012 , 21-35	0.4	8
105	A Posteriori Error Estimators for Control Constrained Optimal Control Problems. <i>International Series of Numerical Mathematics</i> , 2012 , 431-443	0.4	7
104	A Globalized Semi-smooth Newton Method for Variational Discretization of Control Constrained Elliptic Optimal Control Problems. <i>International Series of Numerical Mathematics</i> , 2012 , 171-182	0.4	3
103	Numerical Analysis of POD A-posteriori Error Estimation for Optimal Control. <i>International Series of Numerical Mathematics</i> , 2013 , 137-158	0.4	11
102	Model Order Reduction for PDE Constrained Optimization. <i>International Series of Numerical Mathematics</i> , 2014 , 303-326	0.4	9
101	Domain Decomposition Methods for Problems of Unilateral Contact Between Elastic Bodies with Nonlinear Winkler Covers. 2014 , 739-748		5
100	The Obstacle Problem. 2015 , 127-152		1
99	An 🛮-Penalty Scheme for the Optimal Control of Elliptic Variational Inequalities. 2015 , 151-190		1
98	Numerical Analysis of Optimality-System POD for Constrained Optimal Control. 2015, 297-317		3
97	POD-Based Economic Model Predictive Control for Heat-Convection Phenomena. 2019 , 663-671		2
96	Trading Regions Under Proportional Transaction Costs. 2007 , 563-568		2
95	On the Multiscale Solution of Constrained Minimization Problems. 2008, 93-104		5
94	Elliptic Control by Penalty Techniques with Control Reduction. 2009, 251-267		2
93	Approximation of Sparse Controls in Semilinear Elliptic Equations. <i>Lecture Notes in Computer Science</i> , 2012 , 16-27	0.9	1
92	A Robust Preconditioner for Distributed Optimal Control for Stokes Flow with Control Constraints. 2013 , 771-779		3
91	A Primal-Dual Active Set Strategy for Finite Deformation Dual Mortar Contact. 2013 , 151-171		1
90	Numerical Simulation of Transport in Porous Media: Some Problems from Micro to Macro Scale. 2013 , 57-80		1
89	Fast Solution Techniques in Constrained Optimal Boundary Control of the Semilinear Heat Equation. <i>International Series of Numerical Mathematics</i> , 2007 , 119-147	0.4	3

88	Applications of Semi-smooth Newton Methods to Variational Inequalities. <i>International Series of Numerical Mathematics</i> , 2007 , 175-192	2
87	On Some Nonlinear Optimal Control Problems with Vector-valued Affine Control Constraints. International Series of Numerical Mathematics, 2009 , 105-122	1
86	Convergence analysis of symmetric dual-wind discontinuous Galerkin approximation methods for the obstacle problem. 2020 , 485, 123840	3
85	Null space gradient flows for constrained optimization with applications to shape optimization. 2020 , 26, 90	7
84	Newton and Bouligand derivatives of the scalar play and stop operator. 2020 , 15, 51	2
83	Constrained Optimization with Low-Rank Tensors and Applications to Parametric Problems with PDEs. 2017 , 39, A25-A54	11
82	Optimal cone singularities for conformal flattening. 2018 , 37, 1-17	23
81	Augmented Lagrangian method for total variation restoration with non-quadratic fidelity. 2011 , 5, 237-261	96
80	A nonlinear multigrid solver with line Gauss-Seidel-semismooth-Newton smoother for the Fenchel pre-dual in total variation based image restoration. 2011 , 5, 323-339	8
79	An adaptive finite element method in \$L^2\$-TV-based image denoising. 2014 , 8, 685-711	5
78	Model reduction techniques with a-posteriori error analysis for linear-quadratic optimal control problems. 2012 , 2, 465-485	7
77	Proximal Methods for Elliptic Optimal Control Problems with Sparsity Cost Functional. 2016 , 07, 967-992	15
76	An Inexact Semismooth Newton Method on Riemannian Manifolds with Application to Duality-Based Total Variation Denoising. 2021 , 14, 1565-1600	
75	Nonsmooth exact penalization second-order methods for incompressible bi-viscous fluids. **Computational Optimization and Applications, 2021 , 80, 979** 1.4**	
74	A Sequential Quadratic Programming Method for Volatility Estimation in Option Pricing.	
73	On the Optimization of Steady Bingham Flow in Pipes. 2010 , 379-388	
72	Semismooth Newton Methods for an Optimal Boundary Control Problem of Wave Equations. 2010 , 389-398	1
71	References. 535-564	

70	Numerical Analysis of State-constrained Optimal Control Problems for PDEs. <i>International Series of Numerical Mathematics</i> , 2012 , 467-482)·4	3
69	Nonsmooth Optimization Method and Sparsity. <i>International Series of Numerical Mathematics</i> , 2013 , 57-76	7.4	
68	Model Reduction by Adaptive Discretization in Optimal Control. <i>International Series of Numerical Mathematics</i> , 2014 , 251-284)·4	
67	Applications in continuum mechanics and physics of solids. 2015 , 235-458		
66	Numerical Methods and Applications in Total Variation Image Restoration. 2015 , 1501-1537		
65	Contact Problems with Friction. 2016 , 211-229		
64	Line search globalization of a semismooth Newton method for operator equations in Hilbert spaces with applications in optimal control. 2017 , 13, 47-62		2
63	Differential-difference iterative domain decomposition algorithms for unilateral multibody contact problems of elasticity. 2017 , 125-140		O
62	Finite Element Methods for Elliptic Distributed Optimal Control Problems with Pointwise State Constraints (Survey). 2020 , 3-16		1
61	An Adaptive Penalty Method for Inequality Constrained Minimization Problems. 2021 , 155-164		
60	A quasi-monolithic phase-field description for orthotropic anisotropic fracture with adaptive mesh refinement and primaldual active set method. 2021 , 258, 108060		1
59	A C1 Virtual Element Method for an Elliptic Distributed Optimal Control Problem with Pointwise State Constraints.		5
58	Topology optimization subject to additive manufacturing constraints. 2021 , 11,		0
57	Optimal control of piezoelectric anisotropic plates. 2006 , 162-162		
56	A primal-dual active set strategy for unilateral non-linear dynamic contact problems of thin-walled structures. 2006 , 321-321		1
55	Multilevel Numerical Algorithms and Experiments for Contact Dynamics. 2006 , 271-319		
54	Flow Control with Regularized State Constraints. 2007, 353-366		
53	Numerical Modeling of the Leak through Semipermeable Walls for 2D/3D Stokes Flow: Experimental Scalability of Dual Algorithms. 2021 , 9, 2906		

 $\,$ $\,$ $\,$ Optimization with learning-informed differential equation constraints and its applications.

51	Numerical Approximation of Linear-Quadratic OCPs. 2021 , 167-227		
50	Primal-dual active-set method for solving the unilateral pricing problem of American better-of options on two assets. <i>Electronic Research Archive</i> , 2021 , 30, 90-115	1.9	
49	A semi-analytical method for frictional contact analysis between rock mass and concrete linings. 2022 , 105, 17-28		2
48	Quadratic Convergence of Smoothing Newton's Method for 0/1 Loss Optimization. <i>SIAM Journal on Optimization</i> , 2021 , 31, 3184-3211	2	2
47	On a primal-dual Newton proximal method for convex quadratic programs. <i>Computational Optimization and Applications</i> , 2022 , 81, 369-395	1.4	O
46	A multiscale method for the heterogeneous Signorini problem. <i>Journal of Computational and Applied Mathematics</i> , 2022 , 114160	2.4	
45	Analytical modeling of complex contact behavior between rock mass and lining structure. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021 ,	5.3	1
44	Maxwell Variational Inequalities in Type-II Superconductivity. <i>International Series of Numerical Mathematics</i> , 2022 , 499-519	0.4	
43	Optimal control of PDEs and FE-approximation. <i>Handbook of Numerical Analysis</i> , 2022 , 115-163	1	
42	A Multiscale Fatigue Model for the Degradation of Fiber-Reinforced Materials. <i>Lecture Notes in Computer Science</i> , 2022 , 387-392	0.9	
41	Differential-Difference Iterative Domain Decomposition Methods for the Problems of Contact of Elastic Bodies with Nonlinear Winkler Surface Layers. <i>Journal of Mathematical Sciences</i> , 2022 , 261, 41-5	8 ^{0.4}	
40	Numerical approximation of viscous contact problems applied to glacial sliding. <i>Journal of Fluid Mechanics</i> , 2022 , 938,	3.7	1
39	Risk-neutral PDE-constrained generalized Nash equilibrium problems. <i>Mathematical Programming</i> , 1	2.1	O
38	Pointwise a posteriori error analysis of quadratic finite element method for the elliptic obstacle problem. <i>Journal of Computational and Applied Mathematics</i> , 2022 , 114364	2.4	O
37	Rotational self-friction problem of elastic rods. SN Partial Differential Equations and Applications, 2022 , 3, 1	0.7	
36	Second order semi-smooth Proximal Newton methods in Hilbert spaces. <i>Computational Optimization and Applications</i> ,	1.4	
35	Convergence analysis of a local stationarity scheme for rate-independent systems. <i>ESAIM:</i> Mathematical Modelling and Numerical Analysis,	1.8	

34	A New Strategy for Form Finding and Optimal Design of Space Cable Network Structures. 2022 , 245-2	85	1
33	Adaptive neural network surrogate model for solving the implied volatility of time-dependent American option via Bayesian inference. <i>Electronic Research Archive</i> , 2022 , 30, 2335-2355	1.9	1
32	Analysis of static frictionless beam-to-beam contact using mortar method. <i>Multibody System Dynamics</i> , 1	2.8	
31	Newton Differentiability of Convex Functions in Normed Spaces and of a Class of Operators. <i>SIAM Journal on Optimization</i> , 2022 , 32, 1265-1287	2	
30	Deep solution operators for variational inequalities via proximal neural networks. <i>Research in Mathematical Sciences</i> , 2022 , 9,	1.5	
29	A global convergent semi-smooth Newton method for semi-linear elliptic optimal control problem. <i>Computers and Mathematics With Applications</i> , 2022 , 120, 15-27	2.7	
28	Scalable semismooth Newton methods with multilevel domain decomposition for subsurface flow and reactive transport in porous media. <i>Journal of Computational Physics</i> , 2022 , 467, 111440	4.1	0
27	A phase-field approach for detecting cavities via a Kohn-Vogelius type functional. <i>Inverse Problems</i> ,	2.3	
26	A global two-stage algorithm for non-convex penalized high-dimensional linear regression problems. <i>Computational Statistics</i> ,	1	
25	A Wavelet-Based Approach for the Simulation and Optimal Control of NonLocal Operator Equations. 2022 , 44, A2691-A2708		
24	A semi-Lagrangian mixed finite element method for advection-diffusion variational inequalities. 2022 ,		0
23	Identification of Cavities and Inclusions in Linear Elasticity with a Phase-Field Approach. 2022, 86,		O
22	Parallel fully coupled methods for bound-preserving solution of subsurface flow and transport in porous media. 2022 , 470, 111537		О
21	Semismooth and smoothing Newton methods for nonlinear systems with complementarity constraints: Adaptivity and inexact resolution. 2023 , 420, 114765		O
20	An accelerated Sobolev gradient method for unconstrained optimization problems based on variable inner products. 2023 , 420, 114833		O
19	Unified primal-dual active set method for dynamic frictional contact problems. 2022 , 2022,		O
18	Pointwise a posteriori error analysis of a discontinuous Galerkin method for the elliptic obstacle problem.		O
17	Parallel generalized LagrangeNewton method for fully coupled solution of PDE-constrained optimization problems with bound-constraints. 2023 , 184, 219-233		O

CITATION REPORT

16	Discrete-Time Differential Dynamic Programming on SO(3) With Pose Constraints. 2022 , 10, 112921-112933	О
15	A minimum-type nonlinear complementarity simulator with constrained pressure residual (CPR) methods for wormhole propagation in carbonate acidization. 2023 , 473, 111732	0
14	Convergence analysis of a symmetric dual-wind discontinuous Galerkin method for a parabolic variational inequality. 2022 , 114922	О
13	Adaptive finite element methods for a fourth order obstacle problem and a state constrained optimal control problem. 2022 ,	O
12	On Practical Aspects of Variational Consistency in Contact Dynamics. 2023, 1-13	O
11	Adaptive inexact smoothing Newton method for a nonconforming discretization of a variational inequality. 2023 , 133, 12-29	O
10	The virtual element method for a nonhomogeneous double obstacle problem of Kirchhoff plate. 2023 , 71, 103831	О
9	Scalable computational kernels for mortar finite element methods.	О
8	Smoothing Analysis of Two Robust Multigrid Methods for Elliptic Optimal Control Problems. 2023 , 44, 1-26	О
7	On the Finite Element Approximation of a Semicoercive Stokes Variational Inequality Arising in Glaciology. 2023 , 61, 1-25	О
6	Multigrid methods for an elliptic optimal control problem with pointwise state constraints. 2023 , 17, 100356	О
5	Supremum-norm a posteriori error control of quadratic discontinuous Galerkin methods for the obstacle problem. 2023 , 137, 147-171	О
4	A Symmetric Interior Penalty Method for an Elliptic Distributed Optimal Control Problem with Pointwise State Constraints. 2023 ,	О
3	Amerikanische Optionen. 2023 , 235-259	O
2	Optimal control of the stationary Kirchhoff equation.	0
1	Reduced order model predictive control for parametrized parabolic partial differential equations. 2023 , 453, 128044	O