Xue-Cheng Tai

List of Publications by Year in Descending Order

184 papers	5,315 citations	34 h-index	68 g-index
194 ext. papers	5,977 ext. citations	2.5 avg, IF	6.01 L-index

#	Paper	IF	Citations
184	An Operator-Splitting Method for the Gaussian Curvature Regularization Model with Applications to Surface Smoothing and Imaging. *SIAM Journal of Scientific Computing*, **2022**, 44, A935-A963	2.6	1
183	A Multigrid Algorithm for Maxflow and Min-Cut Problems with Applications to Multiphase Image Segmentation. *Journal of Scientific Computing*, **2021**, 87, 1	2.3	2
182	Learned snakes for 3D image segmentation. *Signal Processing*, **2021**, 183, 108013	4.4	3
181	A regularized convolutional neural network for semantic image segmentation. *Analysis and Applications*, **2021**, 19, 147-165	2.5	13
180	On Variable Splitting and Augmented Lagrangian Method for Total Variation-Related Image Restoration Models **2021**, 1-47		
179	An efficient multi-grid method for TV minimization problems. *Inverse Problems and Imaging*, **2021**, 15, 1199	2.1	1
178	The Potts Model with Different Piecewise Constant Representations and Fast Algorithms: A Survey **2021**, 1-41		
177	The Potts Model with Different Piecewise Constant Representations and Fast Algorithms: A Survey **2021**, 1-41		1
176	Topology- and convexity-preserving image segmentation based on image registration. *Applied Mathematical Modelling*, **2021**, 100, 218-239	4.5	1
175	A new variational approach based on level-set function for convex hull problem with outliers. *Inverse Problems and Imaging*, **2021**, 15, 315-338	2.1	1
174	Efficient and Convergent Preconditioned ADMM for the Potts Models. *SIAM Journal of Scientific Computing*, **2021**, 43, B455-B478	2.6	2
173	Overlapping Domain Decomposition Methods for Ptychographic Imaging. *SIAM Journal of Scientific Computing*, **2021**, 43, B570-B597	2.6	3
172	A Color Elastica Model for Vector-Valued Image Regularization. *SIAM Journal on Imaging Sciences*, **2021**, 14, 717-748	1.9	2
171	A Globally Convergent Algorithm for a Constrained Non-Lipschitz Image Restoration Model. *Journal of Scientific Computing*, **2020**, 83, 1	2.3	2
170	Nonlocal regularized CNN for image segmentation. *Inverse Problems and Imaging*, **2020**, 14, 891-911	2.1	4
169	Volume preserving image segmentation with entropy regularized optimal transport and its applications in deep learning. *Journal of Visual Communication and Image Representation*, **2020**, 71, 102845	2.7	3
168	Convexity Shape Prior for Level Set-Based Image Segmentation Method. *IEEE Transactions on Image Processing*, **2020**, 29, 7141-7152	8.7	16

167	A Variational Convex Hull Algorithm. *Lecture Notes in Computer Science*, **2019**, 224-235	0.9	1
166	Survey of fast algorithms for Euler's elastica-based image segmentation. *Handbook of Numerical Analysis*, **2019**, 20, 533-552	1	1
165	An Iteration Method for X-Ray CT Reconstruction from Variable-Truncation Projection Data. *Lecture Notes in Computer Science*, **2019**, 144-155	0.9	0
164	A New Operator Splitting Method for the Euler Elastica Model for Image Smoothing. *SIAM Journal on Imaging Sciences*, **2019**, 12, 1190-1230	1.9	20
163	Fast operator-splitting algorithms for variational imaging models: Some recent developments. *Handbook of Numerical Analysis*, **2019**, 20, 191-232	1	1
162	Evaluation of the performance of classification algorithms for XFEL single-particle imaging data. *IUCrJ*, **2019**, 6, 331-340	4.7	25
161	Data-driven Method for 3D Axis-symmetric Object Reconstruction from Single Cone-beam Projection Data **2019**,		1
160	A dual EM algorithm for TV regularized Gaussian mixture model in image segmentation. *Inverse Problems and Imaging*, **2019**, 13, 653-677	2.1	4
159	Curvature-based authentication of van Gogh paintings. *Methods and Applications of Analysis*, **2019**, 26, 269-280	0.3	
158	Convex Shape Prior for Multi-Object Segmentation Using a Single Level Set Function **2019**,		11
157	Regularized UNet for Automated Pancreas Segmentation **2019**,		2
156	The fusion of panchromatic and multispectral remote sensing images via tensor-based sparse modeling and hyper-Laplacian prior. *Information Fusion*, **2019**, 52, 76-89	16.7	56
155	An Effective Region Force for Some Variational Models for Learning and Clustering. *Journal of Scientific Computing*, **2018**, 74, 175-196	2.3	15
154	Topology-Preserving Image Segmentation by Beltrami Representation of Shapes. *Journal of Mathematical Imaging and Vision*, **2018**, 60, 401-421	1.6	10
153	Sparse-Data Based 3D Surface Reconstruction for Cartoon and Map. *Mathematics and Visualization*, **2018**, 47-64	0.6	1
152	New region force for variational models in image segmentation and high dimensional data clustering. *Annals of Mathematical Sciences and Applications*, **2018**, 3, 255-286	1.3	3
151	Simplified Energy Landscape for Modularity Using Total Variation. *SIAM Journal on Applied Mathematics*, **2018**, 78, 2439-2464	1.8	5
150	Bregman-Proximal Augmented Lagrangian Approach to Multiphase Image Segmentation. *Lecture Notes in Computer Science*, **2017**, 524-534	0.9	1

149	Augmented Lagrangian method for an Euler's elastica based segmentation model that promotes convex contours. *Inverse Problems and Imaging*, **2017**, 11, 1-23	2.1	27
148	Convergent Non-overlapping Domain Decomposition Methods for Variational Image Segmentation. *Journal of Scientific Computing*, **2016**, 69, 532-555	2.3	8
147	PDE Based Algorithms for Smooth Watersheds. *IEEE Transactions on Medical Imaging*, **2016**, 35, 957-66	11.7	4
146	A Variational Approach for Detecting Feature Lines on Meshes. *Journal of Computational Mathematics*, **2016**, 34, 87-112	2.1	4
145	Deep Learning for Remote Sensing Image Understanding. *Journal of Sensors*, **2016**, 2016, 1-2	2	31
144	Some Facts About Operator-Splitting and Alternating Direction Methods. *Scientific Computation*, **2016**, 19-94	0.1	11
143	Global Binary Optimization on Graphs for Classification of High-Dimensional Data. *Journal of Mathematical Imaging and Vision*, **2015**, 52, 414-435	1.6	23
142	Fast algorithm for color texture image inpainting using the non-local CTV model. *Journal of Global Optimization*, **2015**, 62, 853-876	1.5	33
141	Convergence Rate of Overlapping Domain Decomposition Methods for the Rudin--Osher--Fatemi Model Based on a Dual Formulation. *SIAM Journal on Imaging Sciences*, **2015**, 8, 564-591	1.9	21
140	Efficient Global Minimization Methods for Image Segmentation Models with Four Regions. *Journal of Mathematical Imaging and Vision*, **2015**, 51, 71-97	1.6	15
139	Domain Decomposition Methods for Total Variation Minimization. *Lecture Notes in Computer Science*, **2015**, 335-349	0.9	
138	Primal-dual method for continuous max-flow approaches **2015**, 17-24		5
137	High-order total variation regularization approach for axially symmetric object tomography from a single radiograph. *Inverse Problems and Imaging*, **2015**, 9, 55-77	2.1	19
136	A fast edge detection algorithm using binary labels. *Inverse Problems and Imaging*, **2015**, 9, 551-578	2.1	8
135	Maximizing Flows with Message-Passing: Computing Spatially Continuous Min-Cuts. *Lecture Notes in Computer Science*, **2015**, 15-28	0.9	4
134	Variational Time-Implicit Multiphase Level-Sets. *Lecture Notes in Computer Science*, **2015**, 278-291	0.9	2
133	Domain Decomposition Methods for Nonlocal Total Variation Image Restoration. *Journal of Scientific Computing*, **2014**, 60, 79-100	2.3	18
132	A new continuous max-flow algorithm for multiphase image segmentation using super-level set functions. *Journal of Visual Communication and Image Representation*, **2014**, 25, 1472-1488	2.7	8

131	Multi-class Transductive Learning Based on $\ell 1$ Relaxations of Cheeger Cut and Mumford-Shah-Potts Model. *Journal of Mathematical Imaging and Vision*, **2014**, 49, 191-201	1.6	29
130	Efficient Convex Optimization Approaches to Variational Image Fusion. *Numerical Mathematics*, **2014**, 7, 234-250	1.5	3
129	A spatially continuous max-flow and min-cut framework for binary labeling problems. *Numerische Mathematik*, **2014**, 126, 559-587	2.2	28
128	Fast Regularization of Matrix-Valued Images. *Lecture Notes in Computer Science*, **2014**, 19-43	0.9	4
127	A Fast Algorithm for a Mean Curvature Based Image Denoising Model Using Augmented Lagrangian Method. *Lecture Notes in Computer Science*, **2014**, 104-118	0.9	5
126	A Fast Continuous Max-Flow Approach to Non-convex Multi-labeling Problems. *Lecture Notes in Computer Science*, **2014**, 134-154	0.9	9
125	Augmented-Lagrangian regularization of matrix-valued maps. *Methods and Applications of Analysis*, **2014**, 21, 105-122	0.3	10
124	An Augmented Lagrangian Method for the Microstructure of a Liquid Crystal Model. *Computational Methods in Applied Sciences (Springer)*, **2014**, 123-137	0.4	
123	Image Segmentation Using Euler's Elastica as the Regularization. *Journal of Scientific Computing*, **2013**, 57, 414-438	2.3	46
122	Reconstructing Open Surfaces via Graph-Cuts. *IEEE Transactions on Visualization and Computer Graphics*, **2013**, 19, 306-18	4	7
121	On piecewise constant level-set (PCLS) methods for the identification of discontinuous parameters in ill-posed problems. *Inverse Problems*, **2013**, 29, 015003	2.3	6
120	Adaptive wavelet collocation methods for image segmentation using TV-Allen-Cahn type models. *Advances in Computational Mathematics*, **2013**, 38, 101-131	1.6	2
119	A weighted dictionary learning model for denoising images corrupted by mixed noise. *IEEE Transactions on Image Processing*, **2013**, 22, 1108-20	8.7	116
118	Simultaneous Convex Optimization of Regions and Region Parameters in Image Segmentation Models. *Mathematics and Visualization*, **2013**, 421-438	0.6	5
117	A Ridge and Corner Preserving Model for Surface Restoration. *SIAM Journal of Scientific Computing*, **2013**, 35, A675-A695	2.6	8
116	Multilayer graph cuts based unsupervised color-texture image segmentation using multivariate mixed student's t-distribution and regional credibility merging. *Pattern Recognition*, **2013**, 46, 1101-1124	7.7	28
115	Stroke-Based Surface Reconstruction. *Numerical Mathematics*, **2013**, 6, 297-324	1.5	2
114	Augmented Lagrangian method for a mean curvature based image denoising model. *Inverse Problems and Imaging*, **2013**, 7, 1409-1432	2.1	68

113	Augmented Lagrangian Methods for p-Harmonic Flows with the Generalized Penalization Terms and Application to Image Processing. *Numerical Mathematics*, **2013**, 6, 1-20	1.5
112	Efficient 3D Endfiring TRUS Prostate Segmentation with Globally Optimized Rotational Symmetry **2013**,	6
111	Four color theorem and convex relaxation for image segmentation with any number of regions. *Inverse Problems and Imaging*, **2013**, 7, 1099-1113	2.1	6
110	Fast numerical schemes related to curvature minimization: a brief and elementary review. *Actes Des Rencontres Du CIRM*, **2013**, 3, 17-30	3
109	Convex Relaxations for a Generalized Chan-Vese Model. *Lecture Notes in Computer Science*, **2013**, 223-236	0.9	9
108	Jointly Segmenting Prostate Zones in 3D MRIs by Globally Optimized Coupled Level-Sets. *Lecture Notes in Computer Science*, **2013**, 12-25	0.9	5
107	A Generic Convexification and Graph Cut Method for Multiphase Image Segmentation. *Lecture Notes in Computer Science*, **2013**, 251-265	0.9
106	A direct approach toward global minimization for multiphase labeling and segmentation problems. *IEEE Transactions on Image Processing*, **2012**, 21, 2399-411	8.7	17
105	Augmented Lagrangian Method for Total Variation Based Image Restoration and Segmentation Over Triangulated Surfaces. *Journal of Scientific Computing*, **2012**, 50, 145-166	2.3	34
104	Augmented Lagrangian Method for Generalized TV-Stokes Model. *Journal of Scientific Computing*, **2012**, 50, 235-264	2.3	26
103	Domain decomposition methods with graph cuts algorithms for total variation minimization. *Advances in Computational Mathematics*, **2012**, 36, 175-199	1.6	14
102	Geometry of total variation regularized Lp-model. *Journal of Computational and Applied Mathematics*, **2012**, 236, 2223-2234	2.4	10
101	A Fast Augmented Lagrangian Method for Euler's Elastica Model. *Lecture Notes in Computer Science*, **2012**, 144-156	0.9	1
100	A Continuous Max-Flow Approach to Minimal Partitions with Label Cost Prior. *Lecture Notes in Computer Science*, **2012**, 279-290	0.9	5
99	Robust Edge Detection Using Mumford-Shah Model and Binary Level Set Method. *Lecture Notes in Computer Science*, **2012**, 291-301	0.9	7
98	Curvature Minimization for Surface Reconstruction with Features. *Lecture Notes in Computer Science*, **2012**, 495-507	0.9	1
97	Fast Regularization of Matrix-Valued Images. *Lecture Notes in Computer Science*, **2012**, 173-186	0.9	5
96	Group-Valued Regularization for Analysis of Articulated Motion. *Lecture Notes in Computer Science*, **2012**, 52-62	0.9	9

95	Polyakov Action Minimization for Efficient Color Image Processing. *Lecture Notes in Computer Science*, **2012**, 50-61	0.9	7
94	Simultaneous Denoising and Illumination Correction via Local Data-Fidelity and Nonlocal Regularization. *Lecture Notes in Computer Science*, **2012**, 218-230	0.9	
93	Fast Algorithms for p-elastica Energy with the Application to Image Inpainting and Curve Reconstruction. *Lecture Notes in Computer Science*, **2012**, 169-182	0.9	2
92	A Study on Convex Optimization Approaches to Image Fusion. *Lecture Notes in Computer Science*, **2012**, 122-133	0.9	
91	A Fast Algorithm for Euler's Elastica Model Using Augmented Lagrangian Method. *SIAM Journal on Imaging Sciences*, **2011**, 4, 313-344	1.9	116
90	A Modified TV-Stokes Model for Image Processing. *SIAM Journal of Scientific Computing*, **2011**, 33, 1574-1597	2.0	16
89	A Convex and Exact Approach to Discrete Constrained TV-L1 Image Approximation. *East Asian Journal on Applied Mathematics*, **2011**, 1, 172-186	4	6
88	Graph cuts for curvature based image denoising. *IEEE Transactions on Image Processing*, **2011**, 20, 1199-210	21.0	35
87	Multiple piecewise constant with geodesic active contours (MPC-GAC) framework for interactive image segmentation using graph cut optimization. *Image and Vision Computing*, **2011**, 29, 499-508	3.7	27
86	On Semi-implicit Splitting Schemes for the Beltrami Color Image Filtering. *Journal of Mathematical Imaging and Vision*, **2011**, 40, 199-213	1.6	7
85	Compression and denoising using l 0-norm. *Computational Optimization and Applications*, **2011**, 50, 425-444	1.4	5
84	Orientation-Matching Minimization for Image Denoising and Inpainting. *International Journal of Computer Vision*, **2011**, 92, 308-324	10.6	49
83	Global Minimization for Continuous Multiphase Partitioning Problems Using a Dual Approach. *International Journal of Computer Vision*, **2011**, 92, 112-129	10.6	110
82	Application of splitting scheme and multigrid method for TV-Stokes denoising. *Science China Information Sciences*, **2011**, 54, 745-756	3.4	
81	Image denoising and deblurring: non-convex regularization, inverse diffusion and shock filter. *Science China Information Sciences*, **2011**, 54, 1184-1198	3.4	12
80	A fast segmentation method based on constraint optimization and its applications: Intensity inhomogeneity and texture segmentation. *Pattern Recognition*, **2011**, 44, 2093-2108	7.7	24
79	Augmented Lagrangian method for total variation restoration with non-quadratic fidelity. *Inverse Problems and Imaging*, **2011**, 5, 237-261	2.1	96
78	Mesh Snapping: Robust Interactive Mesh Cutting Using Fast Geodesic Curvature Flow. *Computer Graphics Forum*, **2010**, 29, 517-526	2.4	25

77	A Continuous Max-Flow Approach to Potts Model. *Lecture Notes in Computer Science*, **2010**, 379-392	0.9	76
76	Augmented Lagrangian Method, Dual Methods, and Split Bregman Iteration for ROF, Vectorial TV, and High Order Models. *SIAM Journal on Imaging Sciences*, **2010**, 3, 300-339	1.9	392
75	A level set formulation of geodesic curvature flow on simplicial surfaces. *IEEE Transactions on Visualization and Computer Graphics*, **2010**, 16, 647-62	4	25
74	A study on continuous max-flow and min-cut approaches **2010**,		127
73	Reservoir description using a binary level set model. *Computing and Visualization in Science*, **2010**, 13, 41-58	1	11
72	Fast image segmentation based on multilevel banded closed-form method. *Pattern Recognition Letters*, **2010**, 31, 216-225	4.7	6
71	A two-level domain decomposition method for image restoration. *Inverse Problems and Imaging*, **2010**, 4, 523-545	2.1	25
70	A Compound Algorithm of Denoising Using Second-Order and Fourth-Order Partial Differential Equations. *Numerical Mathematics*, **2009**, 2, 353-376	1.5	27
69	3D Multiphase Piecewise Constant Level Set Method Based on Graph Cut Minimization. *Numerical Mathematics*, **2009**, 2, 403-420	1.5	8
68	On multiple level-set regularization methods for inverse problems. *Inverse Problems*, **2009**, 25, 035004	2.3	21
67	A unified framework for automated 3-d segmentation of surface-stained living cells and a comprehensive segmentation evaluation. *IEEE Transactions on Medical Imaging*, **2009**, 28, 720-38	11.7	24
66	A dual algorithm for minimization of the LLT model. *Advances in Computational Mathematics*, **2009**, 31, 115-130	1.6	42
65	Identification of diffusion parameters in a nonlinear convection diffusion equation using the augmented Lagrangian method. *Computational Geosciences*, **2009**, 13, 317-329	2.7	14
64	Four-Color Theorem and Level Set Methods for Watershed Segmentation. *International Journal of Computer Vision*, **2009**, 82, 264-283	10.6	22
63	An efficient method for smart well production optimisation. *Journal of Petroleum Science and Engineering*, **2009**, 69, 25-39	4.4	26
62	L0-Norm and Total Variation for Wavelet Inpainting. *Lecture Notes in Computer Science*, **2009**, 539-551	0.9	6
61	Image segmentation based on GrabCut framework integrating multiscale nonlinear structure tensor. *IEEE Transactions on Image Processing*, **2009**, 18, 2289-302	8.7	59
60	A Saddle Point Approach to the Computation of Harmonic Maps. *SIAM Journal on Numerical Analysis*, **2009**, 47, 1500-1523	2.4	17

59	Scale-Space Analysis of Discrete Filtering over Arbitrary Triangulated Surfaces. *SIAM Journal on Imaging Sciences*, **2009**, 2, 670-709	1.9	11
58	Model the Solvent-Excluded Surface of 3D Protein Molecular Structures Using Geometric PDE-Based Level-Set Method. *Communications in Computational Physics*, **2009**, 6, 777-792	2.4	5
57	Graph Cut Optimization for the Piecewise Constant Level Set Method Applied to Multiphase Image Segmentation. *Lecture Notes in Computer Science*, **2009**, 1-13	0.9	41
56	On Semi-implicit Splitting Schemes for the Beltrami Color Flow. *Lecture Notes in Computer Science*, **2009**, 259-270	0.9	3
55	Image Denoising Using TV-Stokes Equation with an Orientation-Matching Minimization. *Lecture Notes in Computer Science*, **2009**, 490-501	0.9	7
54	Augmented Lagrangian Method, Dual Methods and Split Bregman Iteration for ROF Model. *Lecture Notes in Computer Science*, **2009**, 502-513	0.9	95
53	On Level-Set Type Methods for Recovering Piecewise Constant Solutions of Ill-Posed Problems. *Lecture Notes in Computer Science*, **2009**, 50-62	0.9	2
52	Efficient Global Minimization for the Multiphase Chan-Vese Model of Image Segmentation. *Lecture Notes in Computer Science*, **2009**, 28-41	0.9	17
51	Fast PCLSM with Newton Updating Algorithm. *Mathematics and Visualization*, **2007**, 249-262	0.6	
50	Nonlinear Multilevel Schemes for Solving the Total Variation Image Minimization Problem. *Mathematics and Visualization*, **2007**, 265-288	0.6	5
49	Fast Implementation of Piecewise Constant Level Set Methods. *Mathematics and Visualization*, **2007**, 289-308	0.6	2
48	A piecewise constant level set method for elliptic inverse problems. *Applied Numerical Mathematics*, **2007**, 57, 686-696	2.5	37
47	Image Segmentation Using Some Piecewise Constant Level Set Methods with MBO Type of Projection. *International Journal of Computer Vision*, **2007**, 73, 61-76	10.6	46
46	A Nonlinear Multigrid Method for Total Variation Minimization from Image Restoration. *Journal of Scientific Computing*, **2007**, 33, 115-138	2.3	31
45	Level Set Methods for Watershed Image Segmentation **2007**, 178-190		20
44	Level set method for positron emission tomography. *International Journal of Biomedical Imaging*, **2007**, 2007, 26950	5.2	9
43	A TV-Stokes Denoising Algorithm **2007**, 473-483		26
42	Efficient History Matching and Production Optimization with the Augmented Lagrangian Method **2007**,		2

41	Piecewise Constant Level Set Method for 3D Image Segmentation **2007**, 687-696		
40	Image Inpainting Using a TV-Stokes Equation. *Mathematics and Visualization*, **2007**, 3-22	0.6	17
39	Reservoir Description Using a Binary Level Set Approach with Additional Prior Information About the Reservoir Model. *Mathematics and Visualization*, **2007**, 403-426	0.6	1
38	Automated detection of tunneling nanotubes in 3D images. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2006**, 69, 961-72	4.6	16
37	Piecewise Constant Level Set Method for Interface Problems. *International Series of Numerical Mathematics*, **2006**, 307-316	0.4	8
36	A variant of the level set method and applications to image segmentation. *Mathematics of Computation*, **2006**, 75, 1155-1175	1.6	139
35	A binary level set model and some applications to Mumford-Shah image segmentation. *IEEE Transactions on Image Processing*, **2006**, 15, 1171-81	8.7	228
34	Iterative Image Restoration Combining Total Variation Minimization and a Second-Order Functional. *International Journal of Computer Vision*, **2006**, 66, 5-18	10.6	209
33	A discrete de Rham complex with enhanced smoothness. *Calcolo*, **2006**, 43, 287-306	1.5	38
32	Piecewise Constant Level Set Methods and Image Segmentation. *Lecture Notes in Computer Science*, **2005**, 573-584	0.9	15
31	Electrical impedance tomography using level set representation and total variational regularization. *Journal of Computational Physics*, **2005**, 205, 357-372	4.1	152
30	Parameter Estimation with the Augmented Lagrangian Method for a Parabolic Equation. *Journal of Optimization Theory and Applications*, **2005**, 124, 435-453	1.6	16
29	Nonlinear Positive Interpolation Operators for Analysis with Multilevel Grids **2005**, 477-484		
28	Level set and total variation regularization for elliptic inverse problems with discontinuous coefficients. *Journal of Computational Physics*, **2004**, 193, 40-66	4.1	140
27	Noise removal using smoothed normals and surface fitting. *IEEE Transactions on Image Processing*, **2004**, 13, 1345-57	8.7	152
26	Permeability Estimation with the Augmented Lagrangian Method for a Nonlinear Diffusion Equation. *Computational Geosciences*, **2003**, 7, 27-47	2.7	12
25	Rate of Convergence for some constraint decomposition methods for nonlinear variational inequalities. *Numerische Mathematik*, **2003**, 93, 755-786	2.2	55
24	Convergence Rate Analysis of a Multiplicative Schwarz Method for Variational Inequalities. *SIAM Journal on Numerical Analysis*, **2003**, 41, 1052-1073	2.4	34

23	Identification of Discontinuous Coefficients in Elliptic Problems Using Total Variation Regularization. *SIAM Journal of Scientific Computing*, **2003**, 25, 881-904	2.6	85
22	Noise removal using fourth-order partial differential equation with applications to medical magnetic resonance images in space and time. *IEEE Transactions on Image Processing*, **2003**, 12, 1579-90	8.7	578
21	Level Set Methods for a Parameter Identification Problem. *IFIP Advances in Information and Communication Technology*, **2003**, 189-200	0.5	2
20	Superconvergence for the Gradient of Finite Element Approximations byL2Projections. *SIAM Journal on Numerical Analysis*, **2002**, 40, 1263-1280	2.4	43
19	A Robust Finite Element Method for Darcy--Stokes Flow. *SIAM Journal on Numerical Analysis*, **2002**, 40, 1605-1631	2.4	146
18	Domain Decomposition and Multigrid Methods for Obstacle Problems. *Lecture Notes in Computer Science*, **2002**, 345-352	0.9	
17	Subspace correction methods for nonsymmetric parabolic problems. *Linear Algebra and Its Applications*, **2001**, 332-334, 205-234	0.9	2
16	Global and uniform convergence of subspace correction methods for some convex optimization problems. *Mathematics of Computation*, **2001**, 71, 105-125	1.6	80
15	Convergence rate analysis of an asynchronous space decomposition method for convex Minimization. *Mathematics of Computation*, **2001**, 71, 1105-1135	1.6	30
14	A robust nonconforming H^2-element. *Mathematics of Computation*, **2000**, 70, 489-506	1.6	56
13	Accuracy of a domain decomposition method for the recovering of discontinuous heat sources in metal sheet cutting. *Computing and Visualization in Science*, **1999**, 2, 149-152	1	3
12	A hybrid nonoverlapping domain decomposition scheme for advection dominated advectiondiffusion problems. *Numerical Algorithms*, **1998**, 18, 321-336	2.1	1
11	A space decomposition method for parabolic equations. *Numerical Methods for Partial Differential Equations*, **1998**, 14, 27-46	2.5	19
10	Applications of a space decomposition method to linear and nonlinear elliptic problems. *Numerical Methods for Partial Differential Equations*, **1998**, 14, 717-737	2.5	13
9	Rate of Convergence of Some Space Decomposition Methods for Linear and Nonlinear Problems. *SIAM Journal on Numerical Analysis*, **1998**, 35, 1558-1570	2.4	59
8	Overlapping domain decomposition and multigrid methods for inverse problems. *Contemporary Mathematics*, **1998**, 523-529	1.6	5
7	Sequential and Parallel Splitting Methods for Bilinear Control Problems in Hilbert Spaces. *SIAM Journal on Numerical Analysis*, **1997**, 34, 91-118	2.4	28
6	Global extrapolation with a parallel splitting method. *Numerical Algorithms*, **1992**, 3, 427-440	2.1	4

5	A parallel splitting up method and its application to Navier-Stokes equations. *Applied Mathematics Letters*, **1991**, 4, 25-29	3.5	103
4	Parallel finite element splitting-up method for parabolic problems. *Numerical Methods for Partial Differential Equations*, **1991**, 7, 209-225	2.5	12
3	Multi-view subspace clustering with inter-cluster consistency and intra-cluster diversity among views. *Applied Intelligence*,1	4.9	1
2	Convex Object(s) Characterization and Segmentation Using Level Set Function. *Journal of Mathematical Imaging and Vision*,1	1.6	1
1	Deep Convolutional Neural Networks with Spatial Regularization, Volume and Star-Shape Priors for Image Segmentation. *Journal of Mathematical Imaging and Vision*,1	1.6	1