

# Xue-Cheng Tai

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8789103/xue-cheng-tai-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. 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.

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	Noise removal using fourth-order partial differential equation with applications to medical magnetic resonance images in space and time. <i>IEEE Transactions on Image Processing</i> , <b>2003</b> , 12, 1579-90	8.7	578
183	Augmented Lagrangian Method, Dual Methods, and Split Bregman Iteration for ROF, Vectorial TV, and High Order Models. <i>SIAM Journal on Imaging Sciences</i> , <b>2010</b> , 3, 300-339	1.9	392
182	A binary level set model and some applications to Mumford-Shah image segmentation. <i>IEEE Transactions on Image Processing</i> , <b>2006</b> , 15, 1171-81	8.7	228
181	Iterative Image Restoration Combining Total Variation Minimization and a Second-Order Functional. <i>International Journal of Computer Vision</i> , <b>2006</b> , 66, 5-18	10.6	209
180	Noise removal using smoothed normals and surface fitting. <i>IEEE Transactions on Image Processing</i> , <b>2004</b> , 13, 1345-57	8.7	152
179	Electrical impedance tomography using level set representation and total variational regularization. <i>Journal of Computational Physics</i> , <b>2005</b> , 205, 357-372	4.1	152
178	A Robust Finite Element Method for Darcy--Stokes Flow. <i>SIAM Journal on Numerical Analysis</i> , <b>2002</b> , 40, 1605-1631	2.4	146
177	Level set and total variation regularization for elliptic inverse problems with discontinuous coefficients. <i>Journal of Computational Physics</i> , <b>2004</b> , 193, 40-66	4.1	140
176	A variant of the level set method and applications to image segmentation. <i>Mathematics of Computation</i> , <b>2006</b> , 75, 1155-1175	1.6	139
175	A study on continuous max-flow and min-cut approaches <b>2010</b> ,		127
174	A weighted dictionary learning model for denoising images corrupted by mixed noise. <i>IEEE Transactions on Image Processing</i> , <b>2013</b> , 22, 1108-20	8.7	116
173	A Fast Algorithm for Euler's Elastica Model Using Augmented Lagrangian Method. <i>SIAM Journal on Imaging Sciences</i> , <b>2011</b> , 4, 313-344	1.9	116
172	Global Minimization for Continuous Multiphase Partitioning Problems Using a Dual Approach. <i>International Journal of Computer Vision</i> , <b>2011</b> , 92, 112-129	10.6	110
171	A parallel splitting up method and its application to Navier-Stokes equations. <i>Applied Mathematics Letters</i> , <b>1991</b> , 4, 25-29	3.5	103
170	Augmented Lagrangian method for total variation restoration with non-quadratic fidelity. <i>Inverse Problems and Imaging</i> , <b>2011</b> , 5, 237-261	2.1	96
169	Augmented Lagrangian Method, Dual Methods and Split Bregman Iteration for ROF Model. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 502-513	0.9	95
168	Identification of Discontinuous Coefficients in Elliptic Problems Using Total Variation Regularization. <i>SIAM Journal of Scientific Computing</i> , <b>2003</b> , 25, 881-904	2.6	85

167	Global and uniform convergence of subspace correction methods for some convex optimization problems. <i>Mathematics of Computation</i> , <b>2001</b> , 71, 105-125	1.6	80
166	A Continuous Max-Flow Approach to Potts Model. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 379-392	0.9	76
165	Augmented Lagrangian method for a mean curvature based image denoising model. <i>Inverse Problems and Imaging</i> , <b>2013</b> , 7, 1409-1432	2.1	68
164	Image segmentation based on GrabCut framework integrating multiscale nonlinear structure tensor. <i>IEEE Transactions on Image Processing</i> , <b>2009</b> , 18, 2289-302	8.7	59
163	Rate of Convergence of Some Space Decomposition Methods for Linear and Nonlinear Problems. <i>SIAM Journal on Numerical Analysis</i> , <b>1998</b> , 35, 1558-1570	2.4	59
162	A robust nonconforming $H^2$ -element. <i>Mathematics of Computation</i> , <b>2000</b> , 70, 489-506	1.6	56
161	The fusion of panchromatic and multispectral remote sensing images via tensor-based sparse modeling and hyper-Laplacian prior. <i>Information Fusion</i> , <b>2019</b> , 52, 76-89	16.7	56
160	Rate of Convergence for some constraint decomposition methods for nonlinear variational inequalities. <i>Numerische Mathematik</i> , <b>2003</b> , 93, 755-786	2.2	55
159	Orientation-Matching Minimization for Image Denoising and Inpainting. <i>International Journal of Computer Vision</i> , <b>2011</b> , 92, 308-324	10.6	49
158	Image Segmentation Using Euler's Elastica as the Regularization. <i>Journal of Scientific Computing</i> , <b>2013</b> , 57, 414-438	2.3	46
157	Image Segmentation Using Some Piecewise Constant Level Set Methods with MBO Type of Projection. <i>International Journal of Computer Vision</i> , <b>2007</b> , 73, 61-76	10.6	46
156	Superconvergence for the Gradient of Finite Element Approximations by $L_2$ Projections. <i>SIAM Journal on Numerical Analysis</i> , <b>2002</b> , 40, 1263-1280	2.4	43
155	A dual algorithm for minimization of the LLT model. <i>Advances in Computational Mathematics</i> , <b>2009</b> , 31, 115-130	1.6	42
154	Graph Cut Optimization for the Piecewise Constant Level Set Method Applied to Multiphase Image Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 1-13	0.9	41
153	A discrete de Rham complex with enhanced smoothness. <i>Calcolo</i> , <b>2006</b> , 43, 287-306	1.5	38
152	A piecewise constant level set method for elliptic inverse problems. <i>Applied Numerical Mathematics</i> , <b>2007</b> , 57, 686-696	2.5	37
151	Graph cuts for curvature based image denoising. <i>IEEE Transactions on Image Processing</i> , <b>2011</b> , 20, 1199-289	2.9	35
150	Augmented Lagrangian Method for Total Variation Based Image Restoration and Segmentation Over Triangulated Surfaces. <i>Journal of Scientific Computing</i> , <b>2012</b> , 50, 145-166	2.3	34

149	Convergence Rate Analysis of a Multiplicative Schwarz Method for Variational Inequalities. <i>SIAM Journal on Numerical Analysis</i> , <b>2003</b> , 41, 1052-1073	2.4	34
148	Fast algorithm for color texture image inpainting using the non-local CTV model. <i>Journal of Global Optimization</i> , <b>2015</b> , 62, 853-876	1.5	33
147	A Nonlinear Multigrid Method for Total Variation Minimization from Image Restoration. <i>Journal of Scientific Computing</i> , <b>2007</b> , 33, 115-138	2.3	31
146	Deep Learning for Remote Sensing Image Understanding. <i>Journal of Sensors</i> , <b>2016</b> , 2016, 1-2	2	31
145	Convergence rate analysis of an asynchronous space decomposition method for convex Minimization. <i>Mathematics of Computation</i> , <b>2001</b> , 71, 1105-1135	1.6	30
144	Multi-class Transductive Learning Based on $\ell_1$ Relaxations of Cheeger Cut and Mumford-Shah-Potts Model. <i>Journal of Mathematical Imaging and Vision</i> , <b>2014</b> , 49, 191-201	1.6	29
143	A spatially continuous max-flow and min-cut framework for binary labeling problems. <i>Numerische Mathematik</i> , <b>2014</b> , 126, 559-587	2.2	28
142	Multilayer graph cuts based unsupervised color texture image segmentation using multivariate mixed student's t-distribution and regional credibility merging. <i>Pattern Recognition</i> , <b>2013</b> , 46, 1101-1124	2.7	28
141	Sequential and Parallel Splitting Methods for Bilinear Control Problems in Hilbert Spaces. <i>SIAM Journal on Numerical Analysis</i> , <b>1997</b> , 34, 91-118	2.4	28
140	Multiple piecewise constant with geodesic active contours (MPC-GAC) framework for interactive image segmentation using graph cut optimization. <i>Image and Vision Computing</i> , <b>2011</b> , 29, 499-508	3.7	27
139	A Compound Algorithm of Denoising Using Second-Order and Fourth-Order Partial Differential Equations. <i>Numerical Mathematics</i> , <b>2009</b> , 2, 353-376	1.5	27
138	Augmented Lagrangian method for an Euler's elastica based segmentation model that promotes convex contours. <i>Inverse Problems and Imaging</i> , <b>2017</b> , 11, 1-23	2.1	27
137	Augmented Lagrangian Method for Generalized TV-Stokes Model. <i>Journal of Scientific Computing</i> , <b>2012</b> , 50, 235-264	2.3	26
136	An efficient method for smart well production optimisation. <i>Journal of Petroleum Science and Engineering</i> , <b>2009</b> , 69, 25-39	4.4	26
135	A TV-Stokes Denoising Algorithm <b>2007</b> , 473-483		26
134	Mesh Snapping: Robust Interactive Mesh Cutting Using Fast Geodesic Curvature Flow. <i>Computer Graphics Forum</i> , <b>2010</b> , 29, 517-526	2.4	25
133	A level set formulation of geodesic curvature flow on simplicial surfaces. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2010</b> , 16, 647-62	4	25
132	Evaluation of the performance of classification algorithms for XFEL single-particle imaging data. <i>IUCrJ</i> , <b>2019</b> , 6, 331-340	4.7	25

131	A two-level domain decomposition method for image restoration. <i>Inverse Problems and Imaging</i> , <b>2010</b> , 4, 523-545	2.1	25
130	A unified framework for automated 3-d segmentation of surface-stained living cells and a comprehensive segmentation evaluation. <i>IEEE Transactions on Medical Imaging</i> , <b>2009</b> , 28, 720-38	11.7	24
129	A fast segmentation method based on constraint optimization and its applications: Intensity inhomogeneity and texture segmentation. <i>Pattern Recognition</i> , <b>2011</b> , 44, 2093-2108	7.7	24
128	Global Binary Optimization on Graphs for Classification of High-Dimensional Data. <i>Journal of Mathematical Imaging and Vision</i> , <b>2015</b> , 52, 414-435	1.6	23
127	Four-Color Theorem and Level Set Methods for Watershed Segmentation. <i>International Journal of Computer Vision</i> , <b>2009</b> , 82, 264-283	10.6	22
126	Convergence Rate of Overlapping Domain Decomposition Methods for the Rudin--Osher--Fatemi Model Based on a Dual Formulation. <i>SIAM Journal on Imaging Sciences</i> , <b>2015</b> , 8, 564-591	1.9	21
125	On multiple level-set regularization methods for inverse problems. <i>Inverse Problems</i> , <b>2009</b> , 25, 035004	2.3	21
124	A New Operator Splitting Method for the Euler Elastica Model for Image Smoothing. <i>SIAM Journal on Imaging Sciences</i> , <b>2019</b> , 12, 1190-1230	1.9	20
123	Level Set Methods for Watershed Image Segmentation <b>2007</b> , 178-190		20
122	A space decomposition method for parabolic equations. <i>Numerical Methods for Partial Differential Equations</i> , <b>1998</b> , 14, 27-46	2.5	19
121	High-order total variation regularization approach for axially symmetric object tomography from a single radiograph. <i>Inverse Problems and Imaging</i> , <b>2015</b> , 9, 55-77	2.1	19
120	Domain Decomposition Methods for Nonlocal Total Variation Image Restoration. <i>Journal of Scientific Computing</i> , <b>2014</b> , 60, 79-100	2.3	18
119	A direct approach toward global minimization for multiphase labeling and segmentation problems. <i>IEEE Transactions on Image Processing</i> , <b>2012</b> , 21, 2399-411	8.7	17
118	A Saddle Point Approach to the Computation of Harmonic Maps. <i>SIAM Journal on Numerical Analysis</i> , <b>2009</b> , 47, 1500-1523	2.4	17
117	Image Inpainting Using a TV-Stokes Equation. <i>Mathematics and Visualization</i> , <b>2007</b> , 3-22	0.6	17
116	Efficient Global Minimization for the Multiphase Chan-Vese Model of Image Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 28-41	0.9	17
115	A Modified TV-Stokes Model for Image Processing. <i>SIAM Journal of Scientific Computing</i> , <b>2011</b> , 33, 1574-1597	1.9	16
114	Automated detection of tunneling nanotubes in 3D images. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2006</b> , 69, 961-72	4.6	16

113	Parameter Estimation with the Augmented Lagrangian Method for a Parabolic Equation. <i>Journal of Optimization Theory and Applications</i> , <b>2005</b> , 124, 435-453	1.6	16
112	Convexity Shape Prior for Level Set-Based Image Segmentation Method. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> , 29, 7141-7152	8.7	16
111	Efficient Global Minimization Methods for Image Segmentation Models with Four Regions. <i>Journal of Mathematical Imaging and Vision</i> , <b>2015</b> , 51, 71-97	1.6	15
110	An Effective Region Force for Some Variational Models for Learning and Clustering. <i>Journal of Scientific Computing</i> , <b>2018</b> , 74, 175-196	2.3	15
109	Piecewise Constant Level Set Methods and Image Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 573-584	0.9	15
108	Domain decomposition methods with graph cuts algorithms for total variation minimization. <i>Advances in Computational Mathematics</i> , <b>2012</b> , 36, 175-199	1.6	14
107	Identification of diffusion parameters in a nonlinear convection-diffusion equation using the augmented Lagrangian method. <i>Computational Geosciences</i> , <b>2009</b> , 13, 317-329	2.7	14
106	Applications of a space decomposition method to linear and nonlinear elliptic problems. <i>Numerical Methods for Partial Differential Equations</i> , <b>1998</b> , 14, 717-737	2.5	13
105	A regularized convolutional neural network for semantic image segmentation. <i>Analysis and Applications</i> , <b>2021</b> , 19, 147-165	2.5	13
104	Image denoising and deblurring: non-convex regularization, inverse diffusion and shock filter. <i>Science China Information Sciences</i> , <b>2011</b> , 54, 1184-1198	3.4	12
103	Permeability Estimation with the Augmented Lagrangian Method for a Nonlinear Diffusion Equation. <i>Computational Geosciences</i> , <b>2003</b> , 7, 27-47	2.7	12
102	Parallel finite element splitting-up method for parabolic problems. <i>Numerical Methods for Partial Differential Equations</i> , <b>1991</b> , 7, 209-225	2.5	12
101	Scale-Space Analysis of Discrete Filtering over Arbitrary Triangulated Surfaces. <i>SIAM Journal on Imaging Sciences</i> , <b>2009</b> , 2, 670-709	1.9	11
100	Reservoir description using a binary level set model. <i>Computing and Visualization in Science</i> , <b>2010</b> , 13, 41-58	1	11
99	Some Facts About Operator-Splitting and Alternating Direction Methods. <i>Scientific Computation</i> , <b>2016</b> , 19-94	0.1	11
98	Convex Shape Prior for Multi-Object Segmentation Using a Single Level Set Function <b>2019</b> ,		11
97	Topology-Preserving Image Segmentation by Beltrami Representation of Shapes. <i>Journal of Mathematical Imaging and Vision</i> , <b>2018</b> , 60, 401-421	1.6	10
96	Geometry of total variation regularized Lp-model. <i>Journal of Computational and Applied Mathematics</i> , <b>2012</b> , 236, 2223-2234	2.4	10

95	Augmented-Lagrangian regularization of matrix-valued maps. <i>Methods and Applications of Analysis</i> , <b>2014</b> , 21, 105-122	0.3	10
94	Level set method for positron emission tomography. <i>International Journal of Biomedical Imaging</i> , <b>2007</b> , 2007, 26950	5.2	9
93	Group-Valued Regularization for Analysis of Articulated Motion. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 52-62	0.9	9
92	Convex Relaxations for a Generalized Chan-Vese Model. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 223-236	0.9	9
91	A Fast Continuous Max-Flow Approach to Non-convex Multi-labeling Problems. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 134-154	0.9	9
90	Convergent Non-overlapping Domain Decomposition Methods for Variational Image Segmentation. <i>Journal of Scientific Computing</i> , <b>2016</b> , 69, 532-555	2.3	8
89	A new continuous max-flow algorithm for multiphase image segmentation using super-level set functions. <i>Journal of Visual Communication and Image Representation</i> , <b>2014</b> , 25, 1472-1488	2.7	8
88	A Ridge and Corner Preserving Model for Surface Restoration. <i>SIAM Journal of Scientific Computing</i> , <b>2013</b> , 35, A675-A695	2.6	8
87	3D Multiphase Piecewise Constant Level Set Method Based on Graph Cut Minimization. <i>Numerical Mathematics</i> , <b>2009</b> , 2, 403-420	1.5	8
86	Piecewise Constant Level Set Method for Interface Problems. <i>International Series of Numerical Mathematics</i> , <b>2006</b> , 307-316	0.4	8
85	A fast edge detection algorithm using binary labels. <i>Inverse Problems and Imaging</i> , <b>2015</b> , 9, 551-578	2.1	8
84	Reconstructing Open Surfaces via Graph-Cuts. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2013</b> , 19, 306-18	4	7
83	On Semi-implicit Splitting Schemes for the Beltrami Color Image Filtering. <i>Journal of Mathematical Imaging and Vision</i> , <b>2011</b> , 40, 199-213	1.6	7
82	Image Denoising Using TV-Stokes Equation with an Orientation-Matching Minimization. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 490-501	0.9	7
81	Robust Edge Detection Using Mumford-Shah Model and Binary Level Set Method. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 291-301	0.9	7
80	Polyakov Action Minimization for Efficient Color Image Processing. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 50-61	0.9	7
79	On piecewise constant level-set (PCLS) methods for the identification of discontinuous parameters in ill-posed problems. <i>Inverse Problems</i> , <b>2013</b> , 29, 015003	2.3	6
78	Efficient 3D Endfiring TRUS Prostate Segmentation with Globally Optimized Rotational Symmetry <b>2013</b> ,		6

77	A Convex and Exact Approach to Discrete Constrained TV-L1 Image Approximation. <i>East Asian Journal on Applied Mathematics</i> , <b>2011</b> , 1, 172-186	4	6
76	L0-Norm and Total Variation for Wavelet Inpainting. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 539-551	0.9	6
75	Fast image segmentation based on multilevel banded closed-form method. <i>Pattern Recognition Letters</i> , <b>2010</b> , 31, 216-225	4.7	6
74	Four color theorem and convex relaxation for image segmentation with any number of regions. <i>Inverse Problems and Imaging</i> , <b>2013</b> , 7, 1099-1113	2.1	6
73	Simultaneous Convex Optimization of Regions and Region Parameters in Image Segmentation Models. <i>Mathematics and Visualization</i> , <b>2013</b> , 421-438	0.6	5
72	Compression and denoising using l 0-norm. <i>Computational Optimization and Applications</i> , <b>2011</b> , 50, 425-444	4.4	5
71	Nonlinear Multilevel Schemes for Solving the Total Variation Image Minimization Problem. <i>Mathematics and Visualization</i> , <b>2007</b> , 265-288	0.6	5
70	Primal-dual method for continuous max-flow approaches <b>2015</b> , 17-24		5
69	Model the Solvent-Excluded Surface of 3D Protein Molecular Structures Using Geometric PDE-Based Level-Set Method. <i>Communications in Computational Physics</i> , <b>2009</b> , 6, 777-792	2.4	5
68	A Continuous Max-Flow Approach to Minimal Partitions with Label Cost Prior. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 279-290	0.9	5
67	Fast Regularization of Matrix-Valued Images. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 173-186	0.9	5
66	Jointly Segmenting Prostate Zones in 3D MRIs by Globally Optimized Coupled Level-Sets. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 12-25	0.9	5
65	A Fast Algorithm for a Mean Curvature Based Image Denoising Model Using Augmented Lagrangian Method. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 104-118	0.9	5
64	Overlapping domain decomposition and multigrid methods for inverse problems. <i>Contemporary Mathematics</i> , <b>1998</b> , 523-529	1.6	5
63	Simplified Energy Landscape for Modularity Using Total Variation. <i>SIAM Journal on Applied Mathematics</i> , <b>2018</b> , 78, 2439-2464	1.8	5
62	PDE Based Algorithms for Smooth Watersheds. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 957-66	11.7	4
61	Global extrapolation with a parallel splitting method. <i>Numerical Algorithms</i> , <b>1992</b> , 3, 427-440	2.1	4
60	A dual EM algorithm for TV regularized Gaussian mixture model in image segmentation. <i>Inverse Problems and Imaging</i> , <b>2019</b> , 13, 653-677	2.1	4



59	Nonlocal regularized CNN for image segmentation. <i>Inverse Problems and Imaging</i> , <b>2020</b> , 14, 891-911	2.1	4
58	A Variational Approach for Detecting Feature Lines on Meshes. <i>Journal of Computational Mathematics</i> , <b>2016</b> , 34, 87-112	2.1	4
57	Maximizing Flows with Message-Passing: Computing Spatially Continuous Min-Cuts. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 15-28	0.9	4
56	Fast Regularization of Matrix-Valued Images. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 19-43	0.9	4
55	Efficient Convex Optimization Approaches to Variational Image Fusion. <i>Numerical Mathematics</i> , <b>2014</b> , 7, 234-250	1.5	3
54	Accuracy of a domain decomposition method for the recovering of discontinuous heat sources in metal sheet cutting. <i>Computing and Visualization in Science</i> , <b>1999</b> , 2, 149-152	1	3
53	Fast numerical schemes related to curvature minimization: a brief and elementary review. <i>Actes Des Rencontres Du CIRM</i> , <b>2013</b> , 3, 17-30		3
52	New region force for variational models in image segmentation and high dimensional data clustering. <i>Annals of Mathematical Sciences and Applications</i> , <b>2018</b> , 3, 255-286	1.3	3
51	On Semi-implicit Splitting Schemes for the Beltrami Color Flow. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 259-270	0.9	3
50	Volume preserving image segmentation with entropy regularized optimal transport and its applications in deep learning. <i>Journal of Visual Communication and Image Representation</i> , <b>2020</b> , 71, 102845	2.7	3
49	Learned snakes for 3D image segmentation. <i>Signal Processing</i> , <b>2021</b> , 183, 108013	4.4	3
48	Overlapping Domain Decomposition Methods for Ptychographic Imaging. <i>SIAM Journal of Scientific Computing</i> , <b>2021</b> , 43, B570-B597	2.6	3
47	A Globally Convergent Algorithm for a Constrained Non-Lipschitz Image Restoration Model. <i>Journal of Scientific Computing</i> , <b>2020</b> , 83, 1	2.3	2
46	Adaptive wavelet collocation methods for image segmentation using TV $\mu$ -Allen-Cahn type models. <i>Advances in Computational Mathematics</i> , <b>2013</b> , 38, 101-131	1.6	2
45	Stroke-Based Surface Reconstruction. <i>Numerical Mathematics</i> , <b>2013</b> , 6, 297-324	1.5	2
44	Fast Implementation of Piecewise Constant Level Set Methods. <i>Mathematics and Visualization</i> , <b>2007</b> , 289-308	0.6	2
43	Efficient History Matching and Production Optimization with the Augmented Lagrangian Method <b>2007</b> ,		2
42	Subspace correction methods for nonsymmetric parabolic problems. <i>Linear Algebra and Its Applications</i> , <b>2001</b> , 332-334, 205-234	0.9	2

41	Variational Time-Implicit Multiphase Level-Sets. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 278-291	0.9	2
40	On Level-Set Type Methods for Recovering Piecewise Constant Solutions of Ill-Posed Problems. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 50-62	0.9	2
39	Fast Algorithms for p-elastica Energy with the Application to Image Inpainting and Curve Reconstruction. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 169-182	0.9	2
38	A Multigrid Algorithm for Maxflow and Min-Cut Problems with Applications to Multiphase Image Segmentation. <i>Journal of Scientific Computing</i> , <b>2021</b> , 87, 1	2.3	2
37	Regularized UNet for Automated Pancreas Segmentation <b>2019</b> ,		2
36	Efficient and Convergent Preconditioned ADMM for the Potts Models. <i>SIAM Journal of Scientific Computing</i> , <b>2021</b> , 43, B455-B478	2.6	2
35	A Color Elastica Model for Vector-Valued Image Regularization. <i>SIAM Journal on Imaging Sciences</i> , <b>2021</b> , 14, 717-748	1.9	2
34	Level Set Methods for a Parameter Identification Problem. <i>IFIP Advances in Information and Communication Technology</i> , <b>2003</b> , 189-200	0.5	2
33	Bregman-Proximal Augmented Lagrangian Approach to Multiphase Image Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 524-534	0.9	1
32	A Variational Convex Hull Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 224-235	0.9	1
31	Survey of fast algorithms for Euler's elastica-based image segmentation. <i>Handbook of Numerical Analysis</i> , <b>2019</b> , 20, 533-552	1	1
30	Fast operator-splitting algorithms for variational imaging models: Some recent developments. <i>Handbook of Numerical Analysis</i> , <b>2019</b> , 20, 191-232	1	1
29	A hybrid nonoverlapping domain decomposition scheme for advection dominated advection-diffusion problems. <i>Numerical Algorithms</i> , <b>1998</b> , 18, 321-336	2.1	1
28	Multi-view subspace clustering with inter-cluster consistency and intra-cluster diversity among views. <i>Applied Intelligence</i> ,1	4.9	1
27	Data-driven Method for 3D Axis-symmetric Object Reconstruction from Single Cone-beam Projection Data <b>2019</b> ,		1
26	Convex Object(s) Characterization and Segmentation Using Level Set Function. <i>Journal of Mathematical Imaging and Vision</i> ,1	1.6	1
25	Sparse-Data Based 3D Surface Reconstruction for Cartoon and Map. <i>Mathematics and Visualization</i> , <b>2018</b> , 47-64	0.6	1
24	Reservoir Description Using a Binary Level Set Approach with Additional Prior Information About the Reservoir Model. <i>Mathematics and Visualization</i> , <b>2007</b> , 403-426	0.6	1

23	A Fast Augmented Lagrangian Method for Euler-Bernoulli Elastica Model. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 144-156	0.9	1
22	Curvature Minimization for Surface Reconstruction with Features. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 495-507	0.9	1
21	An efficient multi-grid method for TV minimization problems. <i>Inverse Problems and Imaging</i> , <b>2021</b> , 15, 1199	2.1	1
20	The Potts Model with Different Piecewise Constant Representations and Fast Algorithms: A Survey <b>2021</b> , 1-41		1
19	Topology- and convexity-preserving image segmentation based on image registration. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 100, 218-239	4.5	1
18	A new variational approach based on level-set function for convex hull problem with outliers. <i>Inverse Problems and Imaging</i> , <b>2021</b> , 15, 315-338	2.1	1
17	Deep Convolutional Neural Networks with Spatial Regularization, Volume and Star-Shape Priors for Image Segmentation. <i>Journal of Mathematical Imaging and Vision</i> ,1	1.6	1
16	An Operator-Splitting Method for the Gaussian Curvature Regularization Model with Applications to Surface Smoothing and Imaging. <i>SIAM Journal of Scientific Computing</i> , <b>2022</b> , 44, A935-A963	2.6	1
15	An Iteration Method for X-Ray CT Reconstruction from Variable-Truncation Projection Data. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 144-155	0.9	0
14	Domain Decomposition Methods for Total Variation Minimization. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 335-349	0.9	
13	Augmented Lagrangian Methods for p-Harmonic Flows with the Generalized Penalization Terms and Application to Image Processing. <i>Numerical Mathematics</i> , <b>2013</b> , 6, 1-20	1.5	
12	Application of splitting scheme and multigrid method for TV-Stokes denoising. <i>Science China Information Sciences</i> , <b>2011</b> , 54, 745-756	3.4	
11	Fast PCLSM with Newton Updating Algorithm. <i>Mathematics and Visualization</i> , <b>2007</b> , 249-262	0.6	
10	Nonlinear Positive Interpolation Operators for Analysis with Multilevel Grids <b>2005</b> , 477-484		
9	Piecewise Constant Level Set Method for 3D Image Segmentation <b>2007</b> , 687-696		
8	Domain Decomposition and Multigrid Methods for Obstacle Problems. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 345-352	0.9	
7	Curvature-based authentication of van Gogh paintings. <i>Methods and Applications of Analysis</i> , <b>2019</b> , 26, 269-280	0.3	
6	Simultaneous Denoising and Illumination Correction via Local Data-Fidelity and Nonlocal Regularization. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 218-230	0.9	

- 5 A Study on Convex Optimization Approaches to Image Fusion. *Lecture Notes in Computer Science*, **2012**, 122-133 0.9
- 4 A Generic Convexification and Graph Cut Method for Multiphase Image Segmentation. *Lecture Notes in Computer Science*, **2013**, 251-265 0.9
- 3 An Augmented Lagrangian Method for the Microstructure of a Liquid Crystal Model. *Computational Methods in Applied Sciences (Springer)*, **2014**, 123-137 0.4
- 2 On Variable Splitting and Augmented Lagrangian Method for Total Variation-Related Image Restoration Models **2021**, 1-47
- 1 The Potts Model with Different Piecewise Constant Representations and Fast Algorithms: A Survey **2021**, 1-41