

Tieyong Zeng

List of Publications by Year in descending order

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107
papers

3,603
citations

172386

29
h-index

143943

57
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107
all docs

107
docs citations

107
times ranked

2234
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Reversible Watermarking Based on Adaptive Prediction-Error Expansion and Pixel Selection. IEEE Transactions on Image Processing, 2011, 20, 3524-3533.	6.0	448
2	General Framework to Histogram-Shifting-Based Reversible Data Hiding. IEEE Transactions on Image Processing, 2013, 22, 2181-2191.	6.0	362
3	A Weighted Difference of Anisotropic and Isotropic Total Variation Model for Image Processing. SIAM Journal on Imaging Sciences, 2015, 8, 1798-1823.	1.3	173
4	Restoration of images corrupted by mixed Gaussian-impulse noise via l_1 - l_0 minimization. Pattern Recognition, 2011, 44, 1708-1720.	5.1	161
5	A Two-Stage Image Segmentation Method Using a Convex Variant of the Mumford-Shah Model and Thresholding. SIAM Journal on Imaging Sciences, 2013, 6, 368-390.	1.3	150
6	Reducing Artifacts in JPEG Decompression Via a Learned Dictionary. IEEE Transactions on Signal Processing, 2014, 62, 718-728.	3.2	146
7	Soft-Edge Assisted Network for Single Image Super-Resolution. IEEE Transactions on Image Processing, 2020, 29, 4656-4668.	6.0	114
8	A Multiphase Image Segmentation Method Based on Fuzzy Region Competition. SIAM Journal on Imaging Sciences, 2010, 3, 277-299.	1.3	100
9	A Convex Variational Model for Restoring Blurred Images with Multiplicative Noise. SIAM Journal on Imaging Sciences, 2013, 6, 1598-1625.	1.3	97
10	A Generalization of LSB Matching. IEEE Signal Processing Letters, 2009, 16, 69-72.	2.1	83
11	A Dictionary Learning Approach for Poisson Image Deblurring. IEEE Transactions on Medical Imaging, 2013, 32, 1277-1289.	5.4	82
12	Multiplicative Noise Removal via a Learned Dictionary. IEEE Transactions on Image Processing, 2012, 21, 4534-4543.	6.0	73
13	Total Variation Structured Total Least Squares Method for Image Restoration. SIAM Journal of Scientific Computing, 2013, 35, B1304-B1320.	1.3	70
14	Weighted variational model for selective image segmentation with application to medical images. Pattern Recognition, 2018, 76, 367-379.	5.1	59
15	A Two-Stage Image Segmentation Method for Blurry Images with Poisson or Multiplicative Gamma Noise. SIAM Journal on Imaging Sciences, 2014, 7, 98-127.	1.3	58
16	Low Rank Prior and Total Variation Regularization for Image Deblurring. Journal of Scientific Computing, 2017, 70, 1336-1357.	1.1	54
17	Single Image Dehazing and Denoising: A Fast Variational Approach. SIAM Journal on Imaging Sciences, 2014, 7, 969-996.	1.3	50
18	Variational Approach for Restoring Blurred Images with Cauchy Noise. SIAM Journal on Imaging Sciences, 2015, 8, 1894-1922.	1.3	49

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19	Surface-Aware Blind Image Deblurring. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1041-1055.	9.7	46
20	Phase Retrieval from Incomplete Magnitude Information via Total Variation Regularization. SIAM Journal of Scientific Computing, 2016, 38, A3672-A3695.	1.3	42
21	Primal-dual algorithms for total variation based image restoration under Poisson noise. Science China Mathematics, 2016, 59, 141-160.	0.8	42
22	Multilevel Edge Features Guided Network for Image Denoising. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3956-3970.	7.2	40
23	Sparse Representation Prior and Total Variation-Based Image Deblurring under Impulse Noise. SIAM Journal on Imaging Sciences, 2013, 6, 2258-2284.	1.3	38
24	A Three-Stage Approach for Segmenting Degraded Color Images: Smoothing, Lifting and Thresholding (SLaT). Journal of Scientific Computing, 2017, 72, 1313-1332.	1.1	36
25	Detecting LSB matching by applying calibration technique for difference image. , 2008, , .		35
26	Image denoising based on the adaptive weighted TV regularization. Signal Processing, 2020, 167, 107325.	2.1	35
27	A Universal Variational Framework for Sparsity-Based Image Inpainting. IEEE Transactions on Image Processing, 2014, 23, 4242-4254.	6.0	34
28	A Superpixel-Based Variational Model for Image Colorization. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2931-2943.	2.9	33
29	Retinex image enhancement via a learned dictionary. Optical Engineering, 2015, 54, 013107.	0.5	30
30	A Nonconvex Model with Minimax Concave Penalty for Image Restoration. Journal of Scientific Computing, 2019, 78, 1063-1086.	1.1	30
31	Simulating and forecasting the cumulative confirmed cases of SARS-CoV-2 in China by Boltzmann function-based regression analyses. Journal of Infection, 2020, 80, 578-606.	1.7	30
32	Alternating Minimization Method for Total Variation Based Wavelet Shrinkage Model. Communications in Computational Physics, 2010, 8, 976-994.	0.7	29
33	Quaternion-based weighted nuclear norm minimization for color image restoration. Pattern Recognition, 2022, 128, 108665.	5.1	29
34	Two-Step Approach for the Restoration of Images Corrupted by Multiplicative Noise. SIAM Journal of Scientific Computing, 2013, 35, A2856-A2873.	1.3	28
35	A Convex Variational Model for Restoring Blurred Images with Large Rician Noise. Journal of Mathematical Imaging and Vision, 2015, 53, 92-111.	0.8	25
36	Variational Single Image Dehazing for Enhanced Visualization. IEEE Transactions on Multimedia, 2020, 22, 2537-2550.	5.2	25

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37	Reliable histogram features for detecting LSB matching. , 2010, , .		24
38	The Convex Relaxation Method on Deconvolution Model with Multiplicative Noise. Communications in Computational Physics, 2013, 13, 1066-1092.	0.7	24
39	On the Total Variation Dictionary Model. IEEE Transactions on Image Processing, 2010, 19, 821-825.	6.0	22
40	Dictionary Learning-Based Subspace Structure Identification in Spectral Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1188-1199.	7.2	22
41	Variational Multiplicative Noise Removal by DC Programming. Journal of Scientific Computing, 2016, 68, 1200-1216.	1.1	22
42	Linkage Between Piecewise Constant Mumford–Shah Model and Rudin–Osher–Fatemi Model and Its Virtue in Image Segmentation. SIAM Journal of Scientific Computing, 2019, 41, B1310-B1340.	1.3	21
43	Local Spatial Constraint and Total Variation for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	21
44	Rank-One Prior: Toward Real-Time Scene Recovery. , 2021, , .		21
45	Deep Multi-Level Wavelet-CNN Denoiser Prior for Restoring Blurred Image With Cauchy Noise. IEEE Signal Processing Letters, 2020, 27, 1635-1639.	2.1	20
46	Adaptive total variation based image segmentation with semi-proximal alternating minimization. Signal Processing, 2021, 183, 108017.	2.1	20
47	Regularized Non-local Total Variation and Application in Image Restoration. Journal of Mathematical Imaging and Vision, 2017, 59, 296-317.	0.8	19
48	Variational Phase Retrieval with Globally Convergent Preconditioned Proximal Algorithm. SIAM Journal on Imaging Sciences, 2018, 11, 56-93.	1.3	19
49	Generative adversarial network-based super-resolution of diffusion-weighted imaging: Application to tumour radiomics in breast cancer. NMR in Biomedicine, 2020, 33, e4345.	1.6	19
50	Advanced denoising for X-ray ptychography. Optics Express, 2019, 27, 10395.	1.7	18
51	A survey on epistemic (model) uncertainty in supervised learning: Recent advances and applications. Neurocomputing, 2022, 489, 449-465.	3.5	18
52	Explicit Coherence Enhancing Filter With Spatial Adaptive Elliptical Kernel. IEEE Signal Processing Letters, 2012, 19, 555-558.	2.1	17
53	Total Variation Restoration of Images Corrupted by Poisson Noise with Iterated Conditional Expectations. Lecture Notes in Computer Science, 2015, , 178-190.	1.0	16
54	Learning multi-level structural information for small organ segmentation. Signal Processing, 2022, 193, 108418.	2.1	16

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55	Image Deblurring Via Total Variation Based Structured Sparse Model Selection. Journal of Scientific Computing, 2016, 67, 1-19.	1.1	15
56	A Prudual Proximal Point Algorithm Solving a Non Negative Basis Pursuit Denoising Model. International Journal of Computer Vision, 2009, 83, 294-311.	10.9	14
57	An image sharpening operator combined with framelet for image deblurring. Inverse Problems, 2020, 36, 045015.	1.0	14
58	Multiplicative Noise Removal Based on Unbiased Box-Cox Transformation. Communications in Computational Physics, 2017, 22, 803-828.	0.7	13
59	Residual network with detail perception loss for single image super-resolution. Computer Vision and Image Understanding, 2020, 199, 103007.	3.0	13
60	Improvement of the embedding efficiency of LSB matching by sum and difference covering set. , 2008, , .		12
61	A Three-Stage Variational Image Segmentation Framework Incorporating Intensity Inhomogeneity Information. SIAM Journal on Imaging Sciences, 2020, 13, 1692-1715.	1.3	12
62	CAB U-Net: An end-to-end category attention boosting algorithm for segmentation. Computerized Medical Imaging and Graphics, 2020, 84, 101764.	3.5	11
63	A weighted bounded Hessian variational model for image labeling and segmentation. Signal Processing, 2020, 173, 107564.	2.1	10
64	Probabilistic Semi-Supervised Learning via Sparse Graph Structure Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 853-867.	7.2	10
65	Two-stage image segmentation based on nonconvex \hat{a}, \hat{a}^2 approximation and thresholding. Applied Mathematics and Computation, 2021, 403, 126168	1.4	10
66	Negligible risk of the COVID-19 resurgence caused by work resuming in China (outside Hubei): a statistical probability study. Journal of Public Health, 2020, 42, 651-652.	1.0	9
67	Phase retrieval from incomplete data via weighted nuclear norm minimization. Pattern Recognition, 2022, 125, 108537.	5.1	9
68	A New Algorithm Framework for Image Inpainting in Transform Domain. SIAM Journal on Imaging Sciences, 2016, 9, 24-51.	1.3	8
69	Convex blind image deconvolution with inverse filtering. Inverse Problems, 2018, 34, 035003.	1.0	8
70	Variational Image Restoration and Segmentation with Rician Noise. Journal of Scientific Computing, 2019, 78, 1329-1352.	1.1	8
71	Pixel-Attention CNN With Color Correlation Loss for Color Image Denoising. IEEE Signal Processing Letters, 2021, 28, 1600-1604.	2.1	8
72	A Two-Stage Image Segmentation Model for Multi-Channel Images. Communications in Computational Physics, 2016, 19, 904-926.	0.7	7

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73	A Convex Variational Approach for Image Deblurring With Multiplicative Structured Noise. IEEE Access, 2020, 8, 37790-37807.	2.6	7
74	An O-Shape Neural Network With Attention Modules to Detect Junctions in Biomedical Images Without Segmentation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 774-785.	3.9	7
75	Poisson noise removal via learned dictionary. , 2010, , .		6
76	Trimmed strategy for affine registration of point sets. Journal of Applied Remote Sensing, 2013, 7, 073468.	0.6	6
77	New Hybrid Variational Recovery Model for Blurred Images with Multiplicative Noise. East Asian Journal on Applied Mathematics, 2013, 3, 263-282.	0.4	6
78	Inhomogeneous image segmentation based on local constant and global smoothness priors. , 2021, 111, 102989.		6
79	Semi-supervised Clustering via Constrained Symmetric Non-negative Matrix Factorization. Lecture Notes in Computer Science, 2012, , 309-319.	1.0	6
80	Nonconvex regularization for blurred images with Cauchy noise. Inverse Problems and Imaging, 2022, 16, 625.	0.6	6
81	Efficient Boosted DC Algorithm for Nonconvex Image Restoration with Rician Noise. SIAM Journal on Imaging Sciences, 2022, 15, 424-454.	1.3	6
82	A further study on steganalysis of LSB matching by calibration. , 2008, , .		5
83	Image Restoration via Tight Frame Regularization and Local Constraints. Journal of Scientific Computing, 2013, 57, 349-371.	1.1	5
84	Hybrid Variational Model for Texture Image Restoration. East Asian Journal on Applied Mathematics, 2017, 7, 629-642.	0.4	5
85	Adjustable super-resolution network via deep supervised learning and progressive self-distillation. Neurocomputing, 2022, 500, 379-393.	3.5	5
86	Improving embedding efficiency via matrix embedding: A case study. , 2009, , .		4
87	Lagrangian multipliers and split Bregman methods for minimization problems constrained on. Journal of Visual Communication and Image Representation, 2012, 23, 1041-1050.	1.7	4
88	Automatic Repair of 3-D Neuron Reconstruction Based on Topological Feature Points and an MOST-Based Repairer. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	4
89	Quaternion Screened Poisson Equation for Low-Light Image Enhancement. IEEE Signal Processing Letters, 2022, 29, 1417-1421.	2.1	4
90	Incorporating known features into a total variation dictionary model for source separation. , 2008, , .		3

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91	Matching pursuit shrinkage in Hilbert spaces. <i>Signal Processing</i> , 2011, 91, 2754-2766.	2.1	3
92	Image restoration based on fractional-order model with decomposition: texture and cartoon. <i>Computational and Applied Mathematics</i> , 2021, 40, 1.	1.0	3
93	SAB Net: A Semantic Attention Boosting Framework for Semantic Segmentation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2024, PP, 1-13.	7.2	3
94	Edge adaptive hybrid regularization model for image deblurring. <i>Inverse Problems</i> , 2022, 38, 065010.	1.0	3
95	Crossover Structure Separation With Application to Neuron Tracing in Volumetric Images. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-13.	2.4	2
96	Weighted area constraints-based breast lesion segmentation in ultrasound image analysis. <i>Inverse Problems and Imaging</i> , 2022, 16, 451.	0.6	2
97	ON GENE SELECTION AND CLASSIFICATION FOR CANCER MICROARRAY DATA USING MULTI-STEP CLUSTERING AND SPARSE REPRESENTATION. <i>Advances in Adaptive Data Analysis</i> , 2011, 03, 127-148.	0.6	1
98	Constrained Total Variation Based Three-Dimension Single Particle Reconstruction in Cryogenic Electron Microscopy. <i>Journal of Scientific Computing</i> , 2020, 85, 1.	1.1	1
99	An Overview of SaT Segmentation Methodology and Its Applications in Image Processing. , 2021, , 1-27.		1
100	Color Image Segmentation by Minimal Surface Smoothing. <i>Lecture Notes in Computer Science</i> , 2015, , 321-334.	1.0	1
101	A stable method solving the total variation dictionary model with L^∞ constraints. <i>Inverse Problems and Imaging</i> , 2014, 8, 507-535.	0.6	1
102	Reducing spatially varying out-of-focus blur from natural image. <i>Inverse Problems and Imaging</i> , 2017, 11, 65-85.	0.6	1
103	A Two-Stage Image Segmentation Method Using Euler's Elastica Regularized Mumford-Shah Model. , 2014, , .		0
104	One-dimensional phase retrieval: regularization, box relaxation and uniqueness. <i>Inverse Problems</i> , 2020, 36, 095004.	1.0	0
105	On the Convex Model of Speckle Reduction. <i>Mathematics and Visualization</i> , 2018, , 121-141.	0.4	0
106	The Synergy Between Different Colour Spaces For Degraded Colour Images Segmentation. , 2018, , .		0
107	Proximal gradient method for nonconvex and nonsmooth optimization on Hadamard manifolds. <i>Optimization Letters</i> , 0, , 1.	0.9	0