Tieyong Zeng

List of Publications by Year
in descending order

107 papers	3,603 citations	172457 29 h-index	144013 57 g-index
107 all docs	107 docs citations	107 times ranked	2234 citing authors

#	ARTICLE	IF	CITATIONS
1	SAB Net: A Semantic Attention Boosting Framework for Semantic Segmentation. IEEE Transactions on Neural Networks and Learning Systems, 2024, PP, 1-13.	11.3	3
2	Local Spatial Constraint and Total Variation for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	21
3	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.	6.3	7
4	Weighted area constraints-based breast lesion segmentation in ultrasound image analysis. Inverse Problems and Imaging, 2022, 16, 451.	1.1	2
5	Nonconvex regularization for blurred images with Cauchy noise. Inverse Problems and Imaging, 2022, 16, 625.	1.1	6
6	Learning multi-level structural information for small organ segmentation. Signal Processing, 2022, 193, 108418.	3.7	16
7	Phase retrieval from incomplete data via weighted nuclear norm minimization. Pattern Recognition, 2022, 125, 108537.	8.1	9
8	Edge adaptive hybrid regularization model for image deblurring. Inverse Problems, 2022, 38, 065010.	2.0	3
9	Efficient Boosted DC Algorithm for Nonconvex Image Restoration with Rician Noise. SIAM Journal on Imaging Sciences, 2022, 15, 424-454.	2.2	6
10	Quaternion-based weighted nuclear norm minimization for color image restoration. Pattern Recognition, 2022, 128, 108665.	8.1	29
11	A survey on epistemic (model) uncertainty in supervised learning: Recent advances and applications. Neurocomputing, 2022, 489, 449-465.	5.9	18
12	Adjustable super-resolution network via deep supervised learning and progressive self-distillation. Neurocomputing, 2022, 500, 379-393.	5.9	5
13	Quaternion Screened Poisson Equation for Low-Light Image Enhancement. IEEE Signal Processing Letters, 2022, 29, 1417-1421.	3.6	4
14	Multilevel Edge Features Guided Network for Image Denoising. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3956-3970.	11.3	40
15	Probabilistic Semi-Supervised Learning via Sparse Graph Structure Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 853-867.	11.3	10
16	Surface-Aware Blind Image Deblurring. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1041-1055.	13.9	46
17	Pixel-Attention CNN With Color Correlation Loss for Color Image Denoising. IEEE Signal Processing Letters, 2021, 28, 1600-1604.	3.6	8
18	Crossover Structure Separation With Application to Neuron Tracing in Volumetric Images. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	2

#	Article	IF	Citations
19	An Overview of SaT Segmentation Methodology and Its Applications in Image Processing. , 2021, , 1-27.		1
20	Inhomogeneous image segmentation based on local constant and global smoothness priors. , 2021, 111, 102989.		6
21	Adaptive total variation based image segmentation with semi-proximal alternating minimization. Signal Processing, 2021, 183, 108017.	3.7	20
22	Two-stage image segmentation based on nonconvex<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si18.svg"><mml:mrow><mml:msub><mml:mi>â„"</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mspace width="0.16em" /><mml:mo linebreak="goodbreak">â^'</mml:mo><mml:mspace width="0.16em" /><mml:msub><mml:mi>â„"</mml:mi><mml:mi>p</mml:mi></mml:msub></mml:mrow></mml:math>approximation and thresholding. Applied Mathematics and Computation, 2021, 403, 126168.	2.2	10
23	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.	4.7	4
24	Rank-One Prior: Toward Real-Time Scene Recovery. , 2021, , .		21
25	Image restoration based on fractional-order model with decomposition: texture and cartoon. Computational and Applied Mathematics, 2021, 40, 1.	2.2	3
26	A Superpixel-Based Variational Model for Image Colorization. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2931-2943.	4.4	33
27	Image denoising based on the adaptive weighted TV regularization. Signal Processing, 2020, 167, 107325.	3.7	35
28	A Three-Stage Variational Image Segmentation Framework Incorporating Intensity Inhomogeneity Information. SIAM Journal on Imaging Sciences, 2020, 13, 1692-1715.	2.2	12
29	CAB U-Net: An end-to-end category attention boosting algorithm for segmentation. Computerized Medical Imaging and Graphics, 2020, 84, 101764.	5.8	11
30	Deep Multi-Level Wavelet-CNN Denoiser Prior for Restoring Blurred Image With Cauchy Noise. IEEE Signal Processing Letters, 2020, 27, 1635-1639.	3.6	20
31	Variational Single Image Dehazing for Enhanced Visualization. IEEE Transactions on Multimedia, 2020, 22, 2537-2550.	7.2	25
32	Constrained Total Variation Based Three-Dimension Single Particle Reconstruction in Cryogenic Electron Microscopy. Journal of Scientific Computing, 2020, 85, 1.	2.3	1
33	Generative adversarial networkâ€based superâ€resolution of diffusionâ€weighted imaging: Application to tumour radiomics in breast cancer. NMR in Biomedicine, 2020, 33, e4345.	2.8	19
34	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.	1.8	9
35	A weighted bounded Hessian variational model for image labeling and segmentation. Signal Processing, 2020, 173, 107564.	3.7	10
36	Soft-Edge Assisted Network for Single Image Super-Resolution. IEEE Transactions on Image Processing, 2020, 29, 4656-4668.	9.8	114

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37	Residual network with detail perception loss for single image super-resolution. Computer Vision and Image Understanding, 2020, 199, 103007.	4.7	13
38	One-dimensional phase retrieval: regularization, box relaxation and uniqueness. Inverse Problems, 2020, 36, 095004.	2.0	0
39	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.	3.3	30
40	A Convex Variational Approach for Image Deblurring With Multiplicative Structured Noise. IEEE Access, 2020, 8, 37790-37807.	4.2	7
41	An image sharpening operator combined with framelet for image deblurring. Inverse Problems, 2020, 36, 045015.	2.0	14
42	A Nonconvex Model with Minimax Concave Penalty for Image Restoration. Journal of Scientific Computing, 2019, 78, 1063-1086.	2.3	30
43	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.	2.8	21
44	Variational Image Restoration and Segmentation with Rician Noise. Journal of Scientific Computing, 2019, 78, 1329-1352.	2.3	8
45	Advanced denoising for X-ray ptychography. Optics Express, 2019, 27, 10395.	3.4	18
46	Variational Phase Retrieval with Globally Convergent Preconditioned Proximal Algorithm. SIAM Journal on Imaging Sciences, 2018, 11, 56-93.	2.2	19
47	Convex blind image deconvolution with inverse filtering. Inverse Problems, 2018, 34, 035003.	2.0	8
48	Weighted variational model for selective image segmentation with application to medical images. Pattern Recognition, 2018, 76, 367-379.	8.1	59
49	On the Convex Model of Speckle Reduction. Mathematics and Visualization, 2018, , 121-141.	0.6	0
50	The Synergy Between Different Colour Spaces For Degraded Colour Images Segmentation. , 2018, , .		0
51	Regularized Non-local Total Variation and Application in Image Restoration. Journal of Mathematical Imaging and Vision, 2017, 59, 296-317.	1.3	19
52	A Three-Stage Approach for Segmenting Degraded Color Images: Smoothing, Lifting and Thresholding (SLaT). Journal of Scientific Computing, 2017, 72, 1313-1332.	2.3	36
53	Hybrid Variational Model for Texture Image Restoration. East Asian Journal on Applied Mathematics, 2017, 7, 629-642.	0.9	5
54	Multiplicative Noise Removal Based on Unbiased Box-Cox Transformation. Communications in Computational Physics, 2017, 22, 803-828.	1.7	13

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55	Low Rank Prior and Total Variation Regularization for Image Deblurring. Journal of Scientific Computing, 2017, 70, 1336-1357.	2.3	54
56	Reducing spatially varying out-of-focus blur from natural image. Inverse Problems and Imaging, 2017, 11, 65-85.	1.1	1
57	A Two-Stage Image Segmentation Model for Multi-Channel Images. Communications in Computational Physics, 2016, 19, 904-926.	1.7	7
58	Phase Retrieval from Incomplete Magnitude Information via Total Variation Regularization. SIAM Journal of Scientific Computing, 2016, 38, A3672-A3695.	2.8	42
59	Primal-dual algorithms for total variation based image restoration under Poisson noise. Science China Mathematics, 2016, 59, 141-160.	1.7	42
60	A New Algorithm Framework for Image Inpainting in Transform Domain. SIAM Journal on Imaging Sciences, 2016, 9, 24-51.	2.2	8
61	Variational Multiplicative Noise Removal by DC Programming. Journal of Scientific Computing, 2016, 68, 1200-1216.	2.3	22
62	Image Deblurring Via Total Variation Based Structured Sparse Model Selection. Journal of Scientific Computing, 2016, 67, 1-19.	2.3	15
63	Total Variation Restoration of Images Corrupted by Poisson Noise with Iterated Conditional Expectations. Lecture Notes in Computer Science, 2015, , 178-190.	1.3	16
64	Retinex image enhancement via a learned dictionary. Optical Engineering, 2015, 54, 013107.	1.0	30
65	Variational Approach for Restoring Blurred Images with Cauchy Noise. SIAM Journal on Imaging Sciences, 2015, 8, 1894-1922.	2.2	49
66	A Weighted Difference of Anisotropic and Isotropic Total Variation Model for Image Processing. SIAM Journal on Imaging Sciences, 2015, 8, 1798-1823.	2.2	173
67	A Convex Variational Model for Restoring Blurred Images with Large Rician Noise. Journal of Mathematical Imaging and Vision, 2015, 53, 92-111.	1.3	25
68	Color Image Segmentation by Minimal Surface Smoothing. Lecture Notes in Computer Science, 2015, , 321-334.	1.3	1
69	A Two-Stage Image Segmentation Method Using Euler's Elastica Regularized Mumford-Shah Model. , 2014, , .		0
70	Reducing Artifacts in JPEG Decompression Via a Learned Dictionary. IEEE Transactions on Signal Processing, 2014, 62, 718-728.	5.3	146
71	A Universal Variational Framework for Sparsity-Based Image Inpainting. IEEE Transactions on Image Processing, 2014, 23, 4242-4254.	9.8	34
72	Single Image Dehazing and Denoising: A Fast Variational Approach. SIAM Journal on Imaging Sciences, 2014, 7, 969-996.	2.2	50

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73	A Two-Stage Image Segmentation Method for Blurry Images with Poisson or Multiplicative Gamma Noise. SIAM Journal on Imaging Sciences, 2014, 7, 98-127.	2.2	58
74	A stable method solving the total variation dictionary model with L^∞ constraints. Inverse Problems and Imaging, 2014, 8, 507-535.	1.1	1
75	A Dictionary Learning Approach for Poisson Image Deblurring. IEEE Transactions on Medical Imaging, 2013, 32, 1277-1289.	8.9	82
76	Image Restoration via Tight Frame Regularization and Local Constraints. Journal of Scientific Computing, 2013, 57, 349-371.	2.3	5
77	General Framework to Histogram-Shifting-Based Reversible Data Hiding. IEEE Transactions on Image Processing, 2013, 22, 2181-2191.	9.8	362
78	A Convex Variational Model for Restoring Blurred Images with Multiplicative Noise. SIAM Journal on Imaging Sciences, 2013, 6, 1598-1625.	2.2	97
79	Trimmed strategy for affine registration of point sets. Journal of Applied Remote Sensing, 2013, 7, 073468.	1.3	6
80	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.	2.2	150
81	Dictionary Learning-Based Subspace Structure Identification in Spectral Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1188-1199.	11.3	22
82	Sparse Representation Prior and Total Variation--Based Image Deblurring under Impulse Noise. SIAM Journal on Imaging Sciences, 2013, 6, 2258-2284.	2.2	38
83	Two-Step Approach for the Restoration of Images Corrupted by Multiplicative Noise. SIAM Journal of Scientific Computing, 2013, 35, A2856-A2873.	2.8	28
84	Total Variation Structured Total Least Squares Method for Image Restoration. SIAM Journal of Scientific Computing, 2013, 35, B1304-B1320.	2.8	70
85	New Hybrid Variational Recovery Model for Blurred Images with Multiplicative Noise. East Asian Journal on Applied Mathematics, 2013, 3, 263-282.	0.9	6
86	The Convex Relaxation Method on Deconvolution Model withMultiplicative Noise. Communications in Computational Physics, 2013, 13, 1066-1092.	1.7	24
87	Lagrangian multipliers and split Bregman methods for minimization problems constrained on. Journal of Visual Communication and Image Representation, 2012, 23, 1041-1050.	2.8	4
88	Multiplicative Noise Removal via a Learned Dictionary. IEEE Transactions on Image Processing, 2012, 21, 4534-4543.	9.8	73
89	Explicit Coherence Enhancing Filter With Spatial Adaptive Elliptical Kernel. IEEE Signal Processing Letters, 2012, 19, 555-558.	3.6	17
90	Semi-supervised Clustering via Constrained Symmetric Non-negative Matrix Factorization. Lecture Notes in Computer Science, 2012, , 309-319.	1.3	6

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91	Efficient Reversible Watermarking Based on Adaptive Prediction-Error Expansion and Pixel Selection. IEEE Transactions on Image Processing, 2011, 20, 3524-3533.	9.8	448
92	Matching pursuit shrinkage in Hilbert spaces. Signal Processing, 2011, 91, 2754-2766.	3.7	3
93	Restoration of images corrupted by mixed Gaussian-impulse noise via l1â€"l0 minimization. Pattern Recognition, 2011, 44, 1708-1720.	8.1	161
94	ON GENE SELECTION AND CLASSIFICATION FOR CANCER MICROARRAY DATA USING MULTI-STEP CLUSTERING AND SPARSE REPRESENTATION. Advances in Adaptive Data Analysis, 2011, 03, 127-148.	0.6	1
95	Reliable histogram features for detecting LSB matching. , 2010, , .		24
96	Poisson noise removal via learned dictionary. , 2010, , .		6
97	A Multiphase Image Segmentation Method Based on Fuzzy Region Competition. SIAM Journal on Imaging Sciences, 2010, 3, 277-299.	2.2	100
98	On the Total Variation Dictionary Model. IEEE Transactions on Image Processing, 2010, 19, 821-825.	9.8	22
99	Alternating Minimization Method for Total Variation Based Wavelet Shrinkage Model. Communications in Computational Physics, 2010, 8, 976-994.	1.7	29
100	A Predual Proximal Point Algorithm Solving a Non Negative Basis Pursuit Denoising Model. International Journal of Computer Vision, 2009, 83, 294-311.	15.6	14
101	Improving embedding efficiency via matrix embedding: A case study. , 2009, , .		4
102	A Generalization of LSB Matching. IEEE Signal Processing Letters, 2009, 16, 69-72.	3.6	83
103	Improvement of the embedding efficiency of LSB matching by sum and difference covering set. , 2008, , .		12
104	A further study on steganalysis of LSB matching by calibration. , 2008, , .		5
105	Incorporating known features into a total variation dictionary model for source separation. , 2008, , .		3
106	Detecting LSB matching by applying calibration technique for difference image. , 2008, , .		35
107	Proximal gradient method for nonconvex and nonsmooth optimization on Hadamard manifolds. Optimization Letters, 0, , 1.	1.6	0