

Lei Zhang

List of Publications by Year in descending order

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418
papers

56,424
citations

2970

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2076

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425
all docs

425
docs citations

425
times ranked

24710
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond a Gaussian Denoiser: Residual Learning of Deep CNN for Image Denoising. IEEE Transactions on Image Processing, 2017, 26, 3142-3155.	6.0	4,738
2	FSIM: A Feature Similarity Index for Image Quality Assessment. IEEE Transactions on Image Processing, 2011, 20, 2378-2386.	6.0	3,728
3	A Completed Modeling of Local Binary Pattern Operator for Texture Classification. IEEE Transactions on Image Processing, 2010, 19, 1657-1663.	6.0	1,688
4	FFDNet: Toward a Fast and Flexible Solution for CNN-Based Image Denoising. IEEE Transactions on Image Processing, 2018, 27, 4608-4622.	6.0	1,554
5	Nonlocally Centralized Sparse Representation for Image Restoration. IEEE Transactions on Image Processing, 2013, 22, 1620-1630.	6.0	1,248
6	Weighted Nuclear Norm Minimization with Application to Image Denoising. , 2014, , .		1,240
7	Sparse representation or collaborative representation: Which helps face recognition?. , 2011, , .		1,161
8	Learning Deep CNN Denoiser Prior for Image Restoration. , 2017, , .		1,161
9	Gradient Magnitude Similarity Deviation: A Highly Efficient Perceptual Image Quality Index. IEEE Transactions on Image Processing, 2014, 23, 684-695.	6.0	1,131
10	Image Deblurring and Super-Resolution by Adaptive Sparse Domain Selection and Adaptive Regularization. IEEE Transactions on Image Processing, 2011, 20, 1838-1857.	6.0	1,084
11	Second-Order Attention Network for Single Image Super-Resolution. , 2019, , .		985
12	Real-Time Compressive Tracking. Lecture Notes in Computer Science, 2012, , 864-877.	1.0	911
13	An edge-guided image interpolation algorithm via directional filtering and data fusion. IEEE Transactions on Image Processing, 2006, 15, 2226-2238.	6.0	847
14	A Feature-Enriched Completely Blind Image Quality Evaluator. IEEE Transactions on Image Processing, 2015, 24, 2579-2591.	6.0	770
15	Rotation invariant texture classification using LBP variance (LBPV) with global matching. Pattern Recognition, 2010, 43, 706-719.	5.1	705
16	Active contours with selective local or global segmentation: A new formulation and level set method. Image and Vision Computing, 2010, 28, 668-676.	2.7	694
17	Fisher Discrimination Dictionary Learning for sparse representation. , 2011, , .		665
18	Active contours driven by local image fitting energy. Pattern Recognition, 2010, 43, 1199-1206.	5.1	640

#	ARTICLE	IF	CITATIONS
19	Learning a Single Convolutional Super-Resolution Network for Multiple Degradations. , 2018, , .		618
20	Two-stage image denoising by principal component analysis with local pixel grouping. Pattern Recognition, 2010, 43, 1531-1549.	5.1	580
21	Weighted Nuclear Norm Minimization and Its Applications to Low Level Vision. International Journal of Computer Vision, 2017, 121, 183-208.	10.9	566
22	Toward Convolutional Blind Denoising of Real Photographs. , 2019, , .		552
23	Low-Dose X-ray CT Reconstruction via Dictionary Learning. IEEE Transactions on Medical Imaging, 2012, 31, 1682-1697.	5.4	494
24	Blind Image Quality Assessment Using Joint Statistics of Gradient Magnitude and Laplacian Features. IEEE Transactions on Image Processing, 2014, 23, 4850-4862.	6.0	492
25	Fast Compressive Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 2002-2015.	9.7	479
26	Retinal vessel extraction by matched filter with first-order derivative of Gaussian. Computers in Biology and Medicine, 2010, 40, 438-445.	3.9	444
27	Canny edge detection enhancement by scale multiplication. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 1485-1490.	9.7	439
28	Sparse Representation Based Fisher Discrimination Dictionary Learning for Image Classification. International Journal of Computer Vision, 2014, 109, 209-232.	10.9	425
29	Bit-Scalable Deep Hashing With Regularized Similarity Learning for Image Retrieval and Person Re-Identification. IEEE Transactions on Image Processing, 2015, 24, 4766-4779.	6.0	422
30	Robust sparse coding for face recognition. , 2011, , .		413
31	Fast Visual Tracking via Dense Spatio-temporal Context Learning. Lecture Notes in Computer Science, 2014, , 127-141.	1.0	413
32	Waterloo Exploration Database: New Challenges for Image Quality Assessment Models. IEEE Transactions on Image Processing, 2017, 26, 1004-1016.	6.0	411
33	A Level Set Approach to Image Segmentation With Intensity Inhomogeneity. IEEE Transactions on Cybernetics, 2016, 46, 546-557.	6.2	390
34	An Online System of Multispectral Palmprint Verification. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 480-490.	2.4	355
35	Interactive image segmentation by maximal similarity based region merging. Pattern Recognition, 2010, 43, 445-456.	5.1	349
36	Image retrieval based on micro-structure descriptor. Pattern Recognition, 2011, 44, 2123-2133.	5.1	333

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37	Sparse Representation Based Image Interpolation With Nonlocal Autoregressive Modeling. IEEE Transactions on Image Processing, 2013, 22, 1382-1394.	6.0	332
38	Sparsity-based image denoising via dictionary learning and structural clustering. , 2011, , .		325
39	Color demosaicking via directional linear minimum mean square-error estimation. IEEE Transactions on Image Processing, 2005, 14, 2167-2178.	6.0	306
40	A survey of graph theoretical approaches to image segmentation. Pattern Recognition, 2013, 46, 1020-1038.	5.1	306
41	Online finger-knuckle-print verification for personal authentication. Pattern Recognition, 2010, 43, 2560-2571.	5.1	303
42	Weighted Schatten ℓ_1 -Norm Minimization for Image Denoising and Background Subtraction. IEEE Transactions on Image Processing, 2016, 25, 4842-4857.	6.0	297
43	Image retrieval based on multi-texton histogram. Pattern Recognition, 2010, 43, 2380-2389.	5.1	290
44	Plug-and-Play Image Restoration With Deep Denoiser Prior. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 6360-6376.	9.7	289
45	Learning without Human Scores for Blind Image Quality Assessment. , 2013, , .		286
46	Gabor Feature Based Sparse Representation for Face Recognition with Gabor Occlusion Dictionary. Lecture Notes in Computer Science, 2010, , 448-461.	1.0	274
47	Joint Learning of Single-Image and Cross-Image Representations for Person Re-identification. , 2016, , .		260
48	Metaface learning for sparse representation based face recognition. , 2010, , .		256
49	Patch Group Based Nonlocal Self-Similarity Prior Learning for Image Denoising. , 2015, , .		251
50	Robust Multi-Exposure Image Fusion: A Structural Patch Decomposition Approach. IEEE Transactions on Image Processing, 2017, 26, 2519-2532.	6.0	250
51	Unsupervised feature selection by regularized self-representation. Pattern Recognition, 2015, 48, 438-446.	5.1	247
52	Color demosaicking by local directional interpolation and nonlocal adaptive thresholding. Journal of Electronic Imaging, 2011, 20, 023016.	0.5	243
53	Regularized Robust Coding for Face Recognition. IEEE Transactions on Image Processing, 2013, 22, 1753-1766.	6.0	243
54	Two denoising methods by wavelet transform. IEEE Transactions on Signal Processing, 1999, 47, 3401-3406.	3.2	241

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55	On Unifying Multi-view Self-Representations for Clustering by Tensor Multi-rank Minimization. International Journal of Computer Vision, 2018, 126, 1157-1179.	10.9	241
56	Noise reduction for magnetic resonance images via adaptive multiscale products thresholding. IEEE Transactions on Medical Imaging, 2003, 22, 1089-1099.	5.4	238
57	Palmpoint verification using binary orientation co-occurrence vector. Pattern Recognition Letters, 2009, 30, 1219-1227.	2.6	235
58	A Generalized Iterated Shrinkage Algorithm for Non-convex Sparse Coding. , 2013, , .		233
59	Image demosaicing: a systematic survey. Proceedings of SPIE, 2008, , .	0.8	232
60	Toward Real-World Single Image Super-Resolution: A New Benchmark and a New Model. , 2019, , .		231
61	Deep Convolutional Neural Models for Picture-Quality Prediction: Challenges and Solutions to Data-Driven Image Quality Assessment. IEEE Signal Processing Magazine, 2017, 34, 130-141.	4.6	226
62	Convolutional Sparse Coding for Image Super-Resolution. , 2015, , .		225
63	Beyond sparsity: The role of L1-optimizer in pattern classification. Pattern Recognition, 2012, 45, 1104-1118.	5.1	216
64	Deep Plug-And-Play Super-Resolution for Arbitrary Blur Kernels. , 2019, , .		214
65	A Sparse Embedding and Least Variance Encoding Approach to Hashing. IEEE Transactions on Image Processing, 2014, 23, 3737-3750.	6.0	205
66	Gaussian kernel based fuzzy rough sets: Model, uncertainty measures and applications. International Journal of Approximate Reasoning, 2010, 51, 453-471.	1.9	198
67	A Probabilistic Collaborative Representation Based Approach for Pattern Classification. , 2016, , .		196
68	Multi-channel Weighted Nuclear Norm Minimization for Real Color Image Denoising. , 2017, , .		194
69	Real-Time Object Tracking Via Online Discriminative Feature Selection. IEEE Transactions on Image Processing, 2013, 22, 4664-4677.	6.0	189
70	Characterization of Palmprints by Wavelet Signatures via Directional Context Modeling. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1335-1347.	5.5	187
71	Tumor Clustering Using Nonnegative Matrix Factorization With Gene Selection. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 599-607.	3.6	186
72	Ensemble of local and global information for finger-knuckle-print recognition. Pattern Recognition, 2011, 44, 1990-1998.	5.1	185

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73	Sparse Representation Classifier Steered Discriminative Projection With Applications to Face Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1023-1035.	7.2	184
74	Mixed Noise Removal by Weighted Encoding With Sparse Nonlocal Regularization. IEEE Transactions on Image Processing, 2014, 23, 2651-2662.	6.0	182
75	ROBUST OBJECT TRACKING USING JOINT COLOR-TEXTURE HISTOGRAM. International Journal of Pattern Recognition and Artificial Intelligence, 2009, 23, 1245-1263.	0.7	179
76	Reinitialization-Free Level Set Evolution via Reaction Diffusion. IEEE Transactions on Image Processing, 2013, 22, 258-271.	6.0	179
77	Centralized sparse representation for image restoration. , 2011, , .		176
78	A Novel Algorithm for Finding Reducts With Fuzzy Rough Sets. IEEE Transactions on Fuzzy Systems, 2012, 20, 385-389.	6.5	162
79	A multi-manifold discriminant analysis method for image feature extraction. Pattern Recognition, 2011, 44, 1649-1657.	5.1	159
80	Robust mean-shift tracking with corrected background-weighted histogram. IET Computer Vision, 2012, 6, 62.	1.3	153
81	Edge detection by scale multiplication in wavelet domain. Pattern Recognition Letters, 2002, 23, 1771-1784.	2.6	150
82	Automatic Image Segmentation by Dynamic Region Merging. IEEE Transactions on Image Processing, 2011, 20, 3592-3605.	6.0	147
83	Rank Entropy-Based Decision Trees for Monotonic Classification. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 2052-2064.	4.0	147
84	A Novel Breath Analysis System Based on Electronic Olfaction. IEEE Transactions on Biomedical Engineering, 2010, 57, 2753-2763.	2.5	146
85	RFSIM: A feature based image quality assessment metric using Riesz transforms. , 2010, , .		145
86	Face recognition using FLDA with single training image per person. Applied Mathematics and Computation, 2008, 205, 726-734.	1.4	142
87	Joint Convolutional Analysis and Synthesis Sparse Representation for Single Image Layer Separation. , 2017, , .		141
88	Semi-coupled dictionary learning with applications to image super-resolution and photo-sketch synthesis. , 2012, , .		140
89	A comprehensive evaluation of full reference image quality assessment algorithms. , 2012, , .		138
90	A Trilateral Weighted Sparse Coding Scheme for Real-World Image Denoising. Lecture Notes in Computer Science, 2018, , 21-38.	1.0	137

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91	Palmprint Recognition Using 3-D Information. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2009, 39, 505-519.	3.3	136
92	Measuring relevance between discrete and continuous features based on neighborhood mutual information. Expert Systems With Applications, 2011, 38, 10737-10750.	4.4	135
93	PCA-Based Spatially Adaptive Denoising of CFA Images for Single-Sensor Digital Cameras. IEEE Transactions on Image Processing, 2009, 18, 797-812.	6.0	132
94	On Robust Fuzzy Rough Set Models. IEEE Transactions on Fuzzy Systems, 2012, 20, 636-651.	6.5	130
95	Gabor feature based robust representation and classification for face recognition with Gabor occlusion dictionary. Pattern Recognition, 2013, 46, 1865-1878.	5.1	129
96	Finger-knuckle-print: A new biometric identifier. , 2009, , .		126
97	Sparse Variation Dictionary Learning for Face Recognition with a Single Training Sample per Person. , 2013, , .		125
98	Directional binary code with application to PolyU near-infrared face database. Pattern Recognition Letters, 2010, 31, 2337-2344.	2.6	120
99	Image Set-Based Collaborative Representation for Face Recognition. IEEE Transactions on Information Forensics and Security, 2014, 9, 1120-1132.	4.5	120
100	Studies on Hyperspectral Face Recognition in Visible Spectrum With Feature Band Selection. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 1354-1361.	3.4	117
101	Multi-scale Patch Based Collaborative Representation for Face Recognition with Margin Distribution Optimization. Lecture Notes in Computer Science, 2012, , 822-835.	1.0	117
102	Robust Online Matrix Factorization for Dynamic Background Subtraction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1726-1740.	9.7	117
103	Face recognition based on regularized nearest points between image sets. , 2013, , .		114
104	Cross-Domain Visual Matching via Generalized Similarity Measure and Feature Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1089-1102.	9.7	114
105	Wrist pulse signal diagnosis using modified Gaussian models and Fuzzy C-Means classification. Medical Engineering and Physics, 2009, 31, 1283-1289.	0.8	113
106	Online joint palmprint and palmvein verification. Expert Systems With Applications, 2011, 38, 2621-2631.	4.4	111
107	Scalable Sparse Subspace Clustering. , 2013, , .		111
108	Active Self-Paced Learning for Cost-Effective and Progressive Face Identification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 7-19.	9.7	110

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109	Metasample-Based Sparse Representation for Tumor Classification. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 1273-1282.	1.9	107
110	Phase congruency induced local features for finger-knuckle-print recognition. Pattern Recognition, 2012, 45, 2522-2531.	5.1	107
111	External Patch Prior Guided Internal Clustering for Image Denoising. , 2015, , .		107
112	A Unified Framework for Representation-Based Subspace Clustering of Out-of-Sample and Large-Scale Data. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2499-2512.	7.2	107
113	Sparse, collaborative, or nonnegative representation: Which helps pattern classification?. Pattern Recognition, 2019, 88, 679-688.	5.1	106
114	External Prior Guided Internal Prior Learning for Real-World Noisy Image Denoising. IEEE Transactions on Image Processing, 2018, 27, 2996-3010.	6.0	105
115	Scale and orientation adaptive mean shift tracking. IET Computer Vision, 2012, 6, 52.	1.3	104
116	Robust Kernel Representation With Statistical Local Features for Face Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 900-912.	7.2	103
117	End-to-End Photo-Sketch Generation via Fully Convolutional Representation Learning. , 2015, , .		102
118	High resolution partial fingerprint alignment using pore valley descriptors. Pattern Recognition, 2010, 43, 1050-1061.	5.1	100
119	Adaptive fingerprint pore modeling and extraction. Pattern Recognition, 2010, 43, 2833-2844.	5.1	100
120	Gradient Histogram Estimation and Preservation for Texture Enhanced Image Denoising. IEEE Transactions on Image Processing, 2014, 23, 2459-2472.	6.0	99
121	Sample Pair Selection for Attribute Reduction with Rough Set. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 2080-2093.	4.0	97
122	Joint discriminative dimensionality reduction and dictionary learning for face recognition. Pattern Recognition, 2013, 46, 2134-2143.	5.1	97
123	From Point to Set: Extend the Learning of Distance Metrics. , 2013, , .		97
124	Collaborative neighbor representation based classification using ℓ_1 -minimization approach. Pattern Recognition Letters, 2013, 34, 201-208.	2.6	96
125	Color space normalization: Enhancing the discriminating power of color spaces for face recognition. Pattern Recognition, 2010, 43, 1454-1466.	5.1	95
126	Monogenic Binary Coding: An Efficient Local Feature Extraction Approach to Face Recognition. IEEE Transactions on Information Forensics and Security, 2012, 7, 1738-1751.	4.5	93

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127	Image Restoration: From Sparse and Low-Rank Priors to Deep Priors [Lecture Notes]. IEEE Signal Processing Magazine, 2017, 34, 172-179.	4.6	92
128	Deep Learning in Visual Computing and Signal Processing. Applied Computational Intelligence and Soft Computing, 2017, 2017, 1-13.	1.6	91
129	Dual Adversarial Network: Toward Real-World Noise Removal and Noise Generation. Lecture Notes in Computer Science, 2020, , 41-58.	1.0	90
130	Finger-Knuckle-Print Verification Based on Band-Limited Phase-Only Correlation. Lecture Notes in Computer Science, 2009, , 141-148.	1.0	89
131	Hierarchical multiscale LBP for face and palmprint recognition. , 2010, , .		89
132	Feature Selection for Monotonic Classification. IEEE Transactions on Fuzzy Systems, 2012, 20, 69-81.	6.5	88
133	Fast Multi-Scale Structural Patch Decomposition for Multi-Exposure Image Fusion. IEEE Transactions on Image Processing, 2020, 29, 5805-5816.	6.0	88
134	Multiscale LMMSE-based image denoising with optimal wavelet selection. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 469-481.	5.6	87
135	Log-Euclidean Kernels for Sparse Representation and Dictionary Learning. , 2013, , .		87
136	A Kernel Classification Framework for Metric Learning. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1950-1962.	7.2	87
137	Molecular Pattern Discovery Based on Penalized Matrix Decomposition. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 1592-1603.	1.9	86
138	Learning locality-constrained collaborative representation for robust face recognition. Pattern Recognition, 2014, 47, 2794-2806.	5.1	85
139	A Deep Structured Model with Radius- ϵ Margin Bound for 3D Human Activity Recognition. International Journal of Computer Vision, 2016, 118, 256-273.	10.9	85
140	A Hybrid l1-l0 Layer Decomposition Model for Tone Mapping. , 2018, , .		83
141	Learning Iteration-wise Generalized Shrinkage-Thresholding Operators for Blind Deconvolution. IEEE Transactions on Image Processing, 2016, 25, 1-1.	6.0	81
142	A Modified Matched Filter With Double-Sided Thresholding for Screening Proliferative Diabetic Retinopathy. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 528-534.	3.6	80
143	Relaxed collaborative representation for pattern classification. , 2012, , .		79
144	Non-invasive blood glucose monitoring for diabetics by means of breath signal analysis. Sensors and Actuators B: Chemical, 2012, 173, 106-113.	4.0	75

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145	Learning Image-adaptive 3D Lookup Tables for High Performance Photo Enhancement in Real-time. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	9.7	75
146	Computerized Wrist Pulse Signal Diagnosis Using Modified Auto-Regressive Models. Journal of Medical Systems, 2011, 35, 321-328.	2.2	74
147	Sparse Representation Classifier for microaneurysm detection and retinal blood vessel extraction. Information Sciences, 2012, 200, 78-90.	4.0	74
148	Texture Enhanced Image Denoising via Gradient Histogram Preservation. , 2013, , .		74
149	Support Vector Guided Dictionary Learning. Lecture Notes in Computer Science, 2014, , 624-639.	1.0	74
150	Blind Face Restoration via Deep Multi-scale Component Dictionaries. Lecture Notes in Computer Science, 2020, , 399-415.	1.0	74
151	Band-Subset-Based Clustering and Fusion for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 747-756.	2.7	71
152	Learning Support Correlation Filters for Visual Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1158-1172.	9.7	71
153	Full-Space Local Topology Extraction for Cross-Modal Retrieval. IEEE Transactions on Image Processing, 2015, 24, 2212-2224.	6.0	70
154	Image reconstruction with locally adaptive sparsity and nonlocal robust regularization. Signal Processing: Image Communication, 2012, 27, 1109-1122.	1.8	69
155	Feature Band Selection for Online Multispectral Palmprint Recognition. IEEE Transactions on Information Forensics and Security, 2012, 7, 1094-1099.	4.5	69
156	Feature extraction based on Laplacian bidirectional maximum margin criterion. Pattern Recognition, 2009, 42, 2327-2334.	5.1	67
157	Exploring Structured Sparsity by a Reweighted Laplace Prior for Hyperspectral Compressive Sensing. IEEE Transactions on Image Processing, 2016, 25, 4974-4988.	6.0	65
158	Max-Margin Dictionary Learning for Multiclass Image Categorization. Lecture Notes in Computer Science, 2010, , 157-170.	1.0	65
159	Discriminant Analysis with Tensor Representation. , 0, , .		64
160	Image segmentation by iterated region merging with localized graph cuts. Pattern Recognition, 2011, 44, 2527-2538.	5.1	64
161	On the Dimensionality Reduction for Sparse Representation Based Face Recognition. , 2010, , .		63
162	Cluster Sparsity Field: An Internal Hyperspectral Imagery Prior for Reconstruction. International Journal of Computer Vision, 2018, 126, 797-821.	10.9	63

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163	Direct Pore Matching for Fingerprint Recognition. Lecture Notes in Computer Science, 2009, , 597-606.	1.0	62
164	Local Log-Euclidean Multivariate Gaussian Descriptor and Its Application to Image Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 803-817.	9.7	61
165	Object separation by polarimetric and spectral imagery fusion. Computer Vision and Image Understanding, 2009, 113, 855-866.	3.0	60
166	A PID Controller Approach for Stochastic Optimization of Deep Networks. , 2018, , .		60
167	Learning Aggregated Transmission Propagation Networks for Haze Removal and Beyond. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2973-2986.	7.2	60
168	Denoising arterial spin labeling perfusion MRI with deep machine learning. Magnetic Resonance Imaging, 2020, 68, 95-105.	1.0	59
169	3-D Palmprint Recognition With Joint Line and Orientation Features. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 274-279.	3.3	58
170	From classifiers to discriminators: A nearest neighbor rule induced discriminant analysis. Pattern Recognition, 2011, 44, 1387-1402.	5.1	57
171	Dark and Bright Channel Prior Embedded Network for Dynamic Scene Deblurring. IEEE Transactions on Image Processing, 2020, 29, 6885-6897.	6.0	57
172	Deep Blind Hyperspectral Image Super-Resolution. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2388-2400.	7.2	57
173	Group MAD Competition? A New Methodology to Compare Objective Image Quality Models. , 2016, , .		56
174	Efficient joint 2D and 3D palmprint matching with alignment refinement. , 2010, , .		54
175	A Benchmark for Edge-Preserving Image Smoothing. IEEE Transactions on Image Processing, 2019, 28, 3556-3570.	6.0	54
176	Simultaneous Fidelity and Regularization Learning for Image Restoration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 284-299.	9.7	54
177	A variational multiphase level set approach to simultaneous segmentation and bias correction. , 2010, , .		53
178	Learning Converged Propagations With Deep Prior Ensemble for Image Enhancement. IEEE Transactions on Image Processing, 2019, 28, 1528-1543.	6.0	53
179	Rotation invariant texture classification using adaptive LBP with directional statistical features. , 2010, , .		52
180	A Novel Earth Mover's Distance Methodology for Image Matching with Gaussian Mixture Models. , 2013, , .		52

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181	Foreground Gating and Background Refining Network for Surveillance Object Detection. IEEE Transactions on Image Processing, 2019, 28, 6077-6090.	6.0	52
182	A Unified Probabilistic Formulation of Image Aesthetic Assessment. IEEE Transactions on Image Processing, 2020, 29, 1548-1561.	6.0	52
183	Nonlocal back-projection for adaptive image enlargement. , 2009, , .		51
184	Deep Convolutional Dictionary Learning for Image Denoising. , 2021, , .		51
185	Tumor Classification Based on Non-Negative Matrix Factorization Using Gene Expression Data. IEEE Transactions on Nanobioscience, 2011, 10, 86-93.	2.2	49
186	Wavelet Based Analysis of Doppler Ultrasonic Wrist-pulse Signals. , 2008, , .		48
187	Monogenic-LBP: A new approach for rotation invariant texture classification. , 2010, , .		48
188	Spectropolarimetric imaging for pathological analysis of skin. Applied Optics, 2009, 48, D236.	2.1	47
189	Non-Shift Edge Based Ratio (NSER): An Image Quality Assessment Metric Based on Early Vision Features. IEEE Signal Processing Letters, 2011, 18, 315-318.	2.1	47
190	Dictionary Learning for Promoting Structured Sparsity in Hyperspectral Compressive Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7223-7235.	2.7	47
191	Visual Understanding via Multi-Feature Shared Learning With Global Consistency. IEEE Transactions on Multimedia, 2016, 18, 247-259.	5.2	46
192	Dynamic Anchor Feature Selection for Single-Shot Object Detection. , 2019, , .		46
193	Accurate Spectral Super-Resolution from Single RGB Image Using Multi-scale CNN. Lecture Notes in Computer Science, 2018, , 206-217.	1.0	45
194	Color Reproduction From Noisy CFA Data of Single Sensor Digital Cameras. IEEE Transactions on Image Processing, 2007, 16, 2184-2197.	6.0	44
195	Scaled Simplex Representation for Subspace Clustering. IEEE Transactions on Cybernetics, 2021, 51, 1493-1505.	6.2	43
196	Blind Image Quality Assessment with a Probabilistic Quality Representation. , 2018, , .		41
197	Feature evaluation and selection based on neighborhood soft margin. Neurocomputing, 2010, 73, 2114-2124.	3.5	40
198	Reconstruction Based Finger-Knuckle-Print Verification With Score Level Adaptive Binary Fusion. IEEE Transactions on Image Processing, 2013, 22, 5050-5062.	6.0	40

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199	Multiresolution Modeling and Estimation of Multisensor Data. IEEE Transactions on Signal Processing, 2004, 52, 3170-3182.	3.2	39
200	On the application of cross correlation function to subsample discrete time delay estimation. , 2006, 16, 682-694.		38
201	Robust Color Demosaicking With Adaptation to Varying Spectral Correlations. IEEE Transactions on Image Processing, 2009, 18, 2706-2717.	6.0	38
202	Clustering based content and color adaptive tone mapping. Computer Vision and Image Understanding, 2018, 168, 37-49.	3.0	38
203	Threshold analysis in wavelet-based denoising. Electronics Letters, 2001, 37, 1485.	0.5	37
204	A unified distance measurement for orientation coding in palmprint verification. Neurocomputing, 2010, 73, 944-950.	3.5	37
205	Robust Object Tracking Via Active Feature Selection. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1957-1967.	5.6	37
206	Effective texture classification by texton encoding induced statistical features. Pattern Recognition, 2015, 48, 447-457.	5.1	37
207	Joint Learning of Multiple Regressors for Single Image Super-Resolution. IEEE Signal Processing Letters, 2016, 23, 102-106.	2.1	37
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