

Bin Fang

List of Publications by Year in descending order

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155
papers

1,915
citations

393982

19
h-index

301761

39
g-index

155
all docs

155
docs citations

155
times ranked

1552
citing authors

#	ARTICLE	IF	CITATIONS
1	Face Recognition Under Varying Illumination Using Gradientfaces. IEEE Transactions on Image Processing, 2009, 18, 2599-2606.	6.0	365
2	Multiscale facial structure representation for face recognition under varying illumination. Pattern Recognition, 2009, 42, 251-258.	5.1	166
3	Negative samples reduction in cross-company software defects prediction. Information and Software Technology, 2015, 62, 67-77.	3.0	131
4	Topology Preserving Non-negative Matrix Factorization for Face Recognition. IEEE Transactions on Image Processing, 2008, 17, 574-584.	6.0	127
5	Tackling class overlap and imbalance problems in software defect prediction. Software Quality Journal, 2018, 26, 97-125.	1.4	68
6	Elastic Registration for Retinal Images Based on Reconstructed Vascular Trees. IEEE Transactions on Biomedical Engineering, 2006, 53, 1183-1187.	2.5	48
7	Model-based signature verification with rotation invariant features. Pattern Recognition, 2009, 42, 1458-1466.	5.1	47
8	Fast and Accurate Vanishing Point Detection and Its Application in Inverse Perspective Mapping of Structured Road. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 755-766.	5.9	36
9	Just Noticeable Distortion-Based Perceptual Rate Control in HEVC. IEEE Transactions on Image Processing, 2020, 29, 7603-7614.	6.0	35
10	Incremental Embedding and Learning in the Local Discriminant Subspace With Application to Face Recognition. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 580-591.	3.3	29
11	Rate Control Method Based on Deep Reinforcement Learning for Dynamic Video Sequences in HEVC. IEEE Transactions on Multimedia, 2021, 23, 1106-1121.	5.2	29
12	THINNING CHARACTER USING MODULUS MINIMA OF WAVELET TRANSFORM. International Journal of Pattern Recognition and Artificial Intelligence, 2006, 20, 361-375.	0.7	28
13	Document Clustering in Correlation Similarity Measure Space. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1002-1013.	4.0	27
14	Incremental Nonnegative Matrix Factorization for Face Recognition. Mathematical Problems in Engineering, 2008, 2008, 1-17.	0.6	26
15	Perspective Transformation Data Augmentation for Object Detection. IEEE Access, 2020, 8, 4935-4943.	2.6	26
16	TWO-STEP SINGLE PARAMETER REGULARIZATION FISHER DISCRIMINANT METHOD FOR FACE RECOGNITION. International Journal of Pattern Recognition and Artificial Intelligence, 2006, 20, 189-207.	0.7	24
17	Faster R-CNN based microscopic cell detection. , 2017, , .		24
18	Robust inverse perspective mapping based on vanishing point. , 2014, , .		23

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19	Accurate Tilt Sensing with Linear Model. IEEE Sensors Journal, 2011, , .	2.4	22
20	A Robust Inclinometer System With Accurate Calibration of Tilt and Azimuth Angles. IEEE Sensors Journal, 2013, 13, 2313-2321.	2.4	22
21	Improved Class Statistics Estimation for Sparse Data Problems in Offline Signature Verification. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2005, 35, 276-286.	3.3	20
22	WAVELET-FACE BASED SUBSPACE LDA METHOD TO SOLVE SMALL SAMPLE SIZE PROBLEM IN FACE RECOGNITION. International Journal of Wavelets, Multiresolution and Information Processing, 2009, 07, 199-214.	0.9	20
23	IMAGE DENOISING BASED ON THE DYADIC WAVELET TRANSFORM AND IMPROVED THRESHOLD. International Journal of Wavelets, Multiresolution and Information Processing, 2009, 07, 269-280.	0.9	18
24	Adaboost algorithm based on MB-LBP features with skin color segmentation for face detection. , 2011, , .		18
25	In silico prediction of toxic action mechanisms of phenols for imbalanced data with Random Forest learner. Journal of Molecular Graphics and Modelling, 2012, 35, 21-27.	1.3	18
26	Visual saliency detection with center shift. Neurocomputing, 2013, 103, 63-74.	3.5	17
27	DSRPH: Deep semantic-aware ranking preserving hashing for efficient multi-label image retrieval. Information Sciences, 2020, 539, 145-156.	4.0	16
28	A factorization based active contour model for texture segmentation. , 2016, , .		15
29	A Novel Discriminant Locality Preserving Projections Method. Journal of Mathematical Imaging and Vision, 2021, 63, 541.	0.8	14
30	HANDWRITING-BASED PERSONAL IDENTIFICATION. International Journal of Pattern Recognition and Artificial Intelligence, 2006, 20, 209-225.	0.7	13
31	A General Matrix Function Dimensionality Reduction Framework and Extension for Manifold Learning. IEEE Transactions on Cybernetics, 2022, 52, 2137-2148.	6.2	13
32	BIONIC FACE RECOGNITION USING GABOR TRANSFORMATION. International Journal of Pattern Recognition and Artificial Intelligence, 2011, 25, 391-402.	0.7	12
33	3D CAD model retrieval based on the combination of features. Multimedia Tools and Applications, 2015, 74, 4907-4925.	2.6	12
34	A Temperature Compensation Model for Low Cost Quartz Accelerometers and Its Application in Tilt Sensing. Mathematical Problems in Engineering, 2016, 2016, 1-10.	0.6	12
35	Exponential Neighborhood Preserving Embedding for Face Recognition. IEICE Transactions on Information and Systems, 2018, E101.D, 1410-1420.	0.4	12
36	Method for Fault Diagnosis of Temperature-Related MEMS Inertial Sensors by Combining Hilbert-Huang Transform and Deep Learning. Sensors, 2020, 20, 5633.	2.1	12

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37	An End-to-End No-Reference Video Quality Assessment Method With Hierarchical Spatiotemporal Feature Representation. IEEE Transactions on Broadcasting, 2022, 68, 651-660.	2.5	12
38	MWD drilling mud signal de-noising and signal extraction research based on the pulse-code information. , 2010, , .		11
39	Adaptive binarization: A new approach to license plate characters segmentation. , 2012, , .		11
40	Deterministic Echo State Networks Based Stock Price Forecasting. Abstract and Applied Analysis, 2014, 2014, 1-6.	0.3	10
41	MEMS Inertial Sensor Fault Diagnosis Using a CNN-Based Data-Driven Method. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2059048.	0.7	10
42	AUTOMATIC MULTI-SCALE SEGMENTATION OF INTRAHEPATIC VESSEL IN CT IMAGES FOR LIVER SURGERY PLANNING. International Journal of Pattern Recognition and Artificial Intelligence, 2013, 27, 1357001.	0.7	9
43	A Novel Race Classification Method Based on Periocular Features Fusion. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1750026.	0.7	9
44	Automatic liver tumour segmentation in CT combining FCN and NMF-based deformable model. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2020, 8, 468-477.	1.3	9
45	Signature envelope curvature descriptor for offline signature verification. , 2007, , .		8
46	A MULTI-LAYER CONTRAST ANALYSIS METHOD FOR TEXTURE CLASSIFICATION BASED ON LBP. International Journal of Pattern Recognition and Artificial Intelligence, 2011, 25, 147-155.	0.7	8
47	Pointer-type meter automatic reading from complex environment based on visual saliency. , 2016, , .		8
48	MULTIRESOLUTION SIGNAL DECOMPOSITION AND APPROXIMATION BASED ON SUPPORT VECTOR MACHINES. International Journal of Wavelets, Multiresolution and Information Processing, 2008, 06, 593-607.	0.9	7
49	ILLUMINATION INVARIANT FACE RECOGNITION USING FABEMD DECOMPOSITION WITH DETAIL MEASURE WEIGHT. International Journal of Pattern Recognition and Artificial Intelligence, 2011, 25, 1261-1273.	0.7	7
50	Optimum Quality Control Algorithm for Versatile Video Coding. IEEE Transactions on Broadcasting, 2022, 68, 582-593.	2.5	7
51	MORPHOLOGICAL STRUCTURE RECONSTRUCTION OF RETINAL VESSELS IN FUNDUS IMAGES. International Journal of Pattern Recognition and Artificial Intelligence, 2005, 19, 937-948.	0.7	6
52	WAVELET NATURAL BOUNDARY ELEMENT METHOD FOR THE NEUMANN EXTERIOR PROBLEM OF STOKES EQUATIONS. International Journal of Wavelets, Multiresolution and Information Processing, 2006, 04, 23-39.	0.9	6
53	Trustworthy metrics models for internetware. Wuhan University Journal of Natural Sciences, 2008, 13, 547-552.	0.2	6
54	Affective Computing and Biometrics Based HCI Surveillance System. , 2008, , .		6

#	ARTICLE	IF	CITATIONS
55	Coarse-to-Fine Particle Segmentation in Microscopic Urinary Images. , 2009, , .		6
56	Traffic Sign Segmentation and Recognition in Scene Images. , 2010, , .		6
57	LOCALITY PRESERVING NONNEGATIVE MATRIX FACTORIZATION WITH APPLICATION TO FACE RECOGNITION. International Journal of Wavelets, Multiresolution and Information Processing, 2010, 08, 835-846.	0.9	6
58	Software fault prediction based on one-class SVM. , 2016, , .		6
59	An energy-balance and game-theory-based cluster formation method for wireless sensor networks. International Journal of Distributed Sensor Networks, 2017, 13, 155014771772079.	1.3	6
60	CNN-Based Broad Learning System. , 2019, , .		6
61	Automatic detecting and recognition of casts in urine sediment images. , 2009, , .		5
62	Face recognition under varying illumination using adaptive filtering. , 2009, , .		5
63	A COMPUTATIONAL AND THEORETICAL ANALYSIS OF LOCAL NULL SPACE DISCRIMINANT METHOD FOR PATTERN CLASSIFICATION. International Journal of Pattern Recognition and Artificial Intelligence, 2011, 25, 117-134.	0.7	5
64	A novel measure to identify influential nodes in complex networks based on network global efficiency. Modern Physics Letters B, 2015, 29, 1550168.	1.0	5
65	Multi-scale B-spline level set segmentation based on Gaussian kernel equalization. , 2016, , .		5
66	Synthetic Data Generator for Classification Rules Learning. , 2016, , .		5
67	An Efficient Distributed Clustering Protocol Based on Game-Theory for Wireless Sensor Networks. , 2016, , .		5
68	Off-Line Signature Verification Based on Multi-Scale Local Structural Pattern. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1756010.	0.7	5
69	Recent Advances in 3D Human Pose Estimation: From Optimization to Implementation and Beyond. International Journal of Pattern Recognition and Artificial Intelligence, 2022, 36, .	0.7	5
70	Shannon Wavelet Kernel based Subspace LDA Approach in Face Recognition. , 2006, , .		4
71	Character recognition of license plate image based on multiple classifiers. , 2009, , .		4
72	Sift features based object tracking with discrete wavelet transform. , 2009, , .		4

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73	A New Fingerprint Thinning Algorithm. , 2010, , .		4
74	Design of an interactive 3D medical visualization system. , 2011, , .		4
75	MULTI-SCALE GRADIENT INVARIANT FOR FACE RECOGNITION UNDER VARYING ILLUMINATION. International Journal of Pattern Recognition and Artificial Intelligence, 2012, 26, 1256016.	0.7	4
76	Real-time object tracking in video pictures based on self-organizing map and image segmentation. , 2014, , .		4
77	A robust lane detection algorithm based on differential excitation. , 2016, , .		4
78	Robust face recognition with multi-scale Weber local descriptor. International Journal of Wavelets, Multiresolution and Information Processing, 2017, 15, 1750052.	0.9	4
79	A novel variational method for liver segmentation based on statistical shape model prior and enforced local statistical feature. , 2017, , .		4
80	Reconstructed Error and Linear Representation Coefficients Restricted by l1-Minimization for Face Recognition under Different Illumination and Occlusion. Mathematical Problems in Engineering, 2017, 2017, 1-16.	0.6	4
81	A Fast Perceptual Surveillance Video Coding (PSVC) Based on Background Model-Driven JND Estimation. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, 2155006.	0.7	4
82	Active contour driven by adaptively weighted signed pressure force combined with Legendre polynomial for image segmentation. Information Sciences, 2021, 564, 327-342.	4.0	4
83	A WAVELET-BASED APPROACH TO RIDGE THINNING IN FINGERPRINT IMAGES. International Journal of Pattern Recognition and Artificial Intelligence, 2005, 19, 631-645.	0.7	3
84	Offline signature verification:A new rotation invariant approach. , 2007, , .		3
85	Offline signature verification based on the gabor transform. , 2007, , .		3
86	COMBINING EODH AND DIRECTIONAL GRADIENT DENSITY FOR OFFLINE SIGNATURE VERIFICATION. International Journal of Pattern Recognition and Artificial Intelligence, 2009, 23, 1161-1177.	0.7	3
87	A LEAST-SQUARES MODEL TO ORTHOGONAL LINEAR DISCRIMINANT ANALYSIS. International Journal of Pattern Recognition and Artificial Intelligence, 2010, 24, 635-650.	0.7	3
88	RBC Image Segmentation Based on Shape Reconstruction and Multi-scale Surface Fitting. , 2010, , .		3
89	A Combined Approach on RBC Image Segmentation through Shape Feature Extraction. Mathematical Problems in Engineering, 2012, 2012, 1-20.	0.6	3
90	A FUSION FRAMEWORK FOR FACE RECOGNITION UNDER VARYING ILLUMINATION BASED ON MULTI-SCALE ANALYSIS. International Journal of Wavelets, Multiresolution and Information Processing, 2012, 10, 1250029.	0.9	3

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91	Turn-Based War Chess Model and Its Search Algorithm per Turn. International Journal of Computer Games Technology, 2016, 2016, 1-14.	1.6	3
92	Automatic decision support by rule exhaustion decision tree algorithm. , 2016, , .		3
93	Optimized generalized hough transform for road marking recognition application. , 2017, , .		3
94	Fast multi-object tracking using convolutional neural networks with tracklets updating. , 2017, , .		3
95	Multi-object tracking using deformable convolution networks with tracklets updating. International Journal of Wavelets, Multiresolution and Information Processing, 2019, 17, 1950042.	0.9	3
96	Roadside Traffic Sign Detection Based on Faster R-CNN. , 2019, , .		3
97	Simple and Robust Locality Preserving Projections Based on Maximum Difference Criterion. Neural Processing Letters, 2022, 54, 1783-1804.	2.0	3
98	A content-oriented no-reference perceptual video quality assessment method for computer graphics animation videos. Information Sciences, 2022, 608, 1731-1746.	4.0	3
99	Preference ontology-oriented metric model for trustworthy Web services. International Journal of Intelligent Systems, 2011, 26, 158-168.	3.3	2
100	Fast and accurate vanishing point detection in complex scenes. , 2014, , .		2
101	Cryptanalysis and Improvement of the Robust and Blind Watermarking Scheme for Dual Color Image. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	2
102	Chinese Handwriting Identification Method Based on Keyword Extraction. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1753004.	0.7	2
103	An improved active shape model method for facial landmarking based on relative position feature. International Journal of Wavelets, Multiresolution and Information Processing, 2017, 15, 1750008.	0.9	2
104	An improved active contour model driven by region-scalable and local Gaussian-distribution fitting energy. , 2017, , .		2
105	Spatial-temporal histograms of gradients and HOD-VLAD encoding for human action recognition. , 2017, , .		2
106	Segmentation Algorithm of the Valid Region in Fisheye Images Using Edge and Region Information. , 2020, , .		2
107	Module Against Power Consumption Attacks for Trustworthiness of Vehicular AI Chips in Wide Temperature Range. International Journal of Pattern Recognition and Artificial Intelligence, 2022, 36, .	0.7	2
108	A novel constraint non-negative matrix factorization criterion based incremental learning in face recognition. , 2008, , .		1

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109	Image segmentation based on Fuzzy hypergraph Model. , 2008, , .		1
110	Texture image segmentation using complex wavelet transform and Hidden Markov models. , 2009, , .		1
111	Weightiness image partition in 3D face recognition. , 2009, , .		1
112	Automated classification of particles in urinary sediment. , 2009, , .		1
113	Wavelet-Based Multi-Level Image Matching with Detail Measure Weight for Face Recognition under Varying Illumination. , 2010, , .		1
114	Face recognition using variance weightiness LBP based on single training image per person. , 2011, , .		1
115	Neighborhood distance and its application in image fusion. , 2012, , .		1
116	3D topological construction model of hepatic vascular tree in CT angiography. , 2013, , .		1
117	OCCLUSION ROBUST FACE RECOGNITION WITH SCATTERING OPERATOR IN GRADIENT DOMAIN. International Journal of Wavelets, Multiresolution and Information Processing, 2013, 11, 1350001.	0.9	1
118	AN ADAPTIVE FUZZY FUSION FRAMEWORK FOR FACE RECOGNITION UNDER ILLUMINATION VARIATION BASED ON LOCAL MULTIPLE PATTERNS. International Journal of Pattern Recognition and Artificial Intelligence, 2013, 27, 1356002.	0.7	1
119	An effective and robust method for modeling multi-furcation liver vessel by using Gap Border Pairing. Computerized Medical Imaging and Graphics, 2014, 38, 490-507.	3.5	1
120	â€Norm based reconstruction error evaluation for human action recognition. , 2016, , .		1
121	Exponential neighborhood preserving discriminant embedding for face recognition. , 2017, , .		1
122	Research and implementation of parallel Lane detection algorithm based on GPU. , 2017, , .		1
123	An Improved Local or Global Active Contour Driven by Legendre Polynomials. , 2018, , .		1
124	Data Balancing Based on Pre-Training Strategy for Liver Segmentation from CT Scans. Applied Sciences (Switzerland), 2019, 9, 1825.	1.3	1
125	Building pose estimation from the perspective of UAVs based on CNNs. International Journal of Wavelets, Multiresolution and Information Processing, 2021, 19, 2150003.	0.9	1
126	Cascaded Deeply Supervised Convolutional Networks for Liver Lesion Segmentation. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, 2152014.	0.7	1

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127	Blood Vessel Segmentation Based on the 3D Residual U-Net. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, 2157007.	0.7	1
128	VLSs: A Local Search Algorithm for Distributed Constraint Optimization Problems. International Journal of Pattern Recognition and Artificial Intelligence, 0, , .	0.7	1
129	Laplacianfaces incorporated inside nonnegative matrix factorization for face recognition. , 2007, , .		0
130	A method for multiple morph targets tracking based on region growing. , 2007, , .		0
131	Face Recognition Using Topology Preserving Nonnegative Matrix Factorization. , 2007, , .		0
132	An efficient regularized neighborhood discriminant analysis through QR decomposition. , 2008, , .		0
133	Direct Neighborhood Discriminant Analysis for Face Recognition. Mathematical Problems in Engineering, 2008, 2008, 1-15.	0.6	0
134	A Novel Approach for Face Recognition Based on Weightiness Image Partition. , 2009, , .		0
135	Discriminant Isomap projection. , 2009, , .		0
136	Learning the Informative Components in Nonnegative Matrix Factorization. , 2010, , .		0
137	Video-Based Signature Verification by Tracking Pen Tip Using Particle Filter Combined with Template Matching. , 2010, , .		0
138	Keyword Extraction from Handwritten Chinese Document Image Based on Matching and Voting of the Local Topological Structure. , 2010, , .		0
139	An efficient casts recognition algorithm in urinary sediment images. , 2010, , .		0
140	Visual saliency estimation using support value transform. , 2012, , .		0
141	Nonlinear Time Series: Computations and Applications 2012. Mathematical Problems in Engineering, 2012, 2012, 1-4.	0.6	0
142	A salient hierarchical model for object recognition. , 2012, , .		0
143	Improved active shape model for facial feature localization using poem descriptor. , 2013, , .		0
144	A FAST AND COMPLETE CONVEX-HULL ALGORITHM ARCHITECTURE BASED ON ELLIPSE AND ELASTIC ELLIPSE METHODS. International Journal of Pattern Recognition and Artificial Intelligence, 2013, 27, 1354008.	0.7	0

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145	Optimized trajectory recovery of on-road vehicles from monocular videos with multiple constraints. IEEJ Transactions on Electrical and Electronic Engineering, 2014, 9, 200-206.	0.8	0
146	Texture image segmentation using fused features and active contour. , 2016, , .		0
147	Accurate tilt sensing with single linear model. , 2016, , .		0
148	Touching Objects Count with Progressive Erosion. , 2018, , .		0
149	Contour Sparse Representation Using Voting Based Matching Pursuit for Road Marking Recognition. IEEE Access, 2019, 7, 144021-144029.	2.6	0
150	Legendre Based Adaptive Image Segmentation Combining The Gradient Information. , 2020, , .		0
151	Hybrid Active Contour Driven by Double-Weighted Signed Pressure Force for Image Segmentation. , 2020, , .		0
152	3D Segment and Pickup Framework for Pancreas Segmentation. , 2021, , .		0
153	An active contour model based on adaptively variable exponent combining Legendre polynomial for image segmentation. Multimedia Tools and Applications, 0, , 1.	2.6	0
154	An Accelerated and Flexible SIFT Parallel-Computing Approach Based on the General Multi-Core Platform. International Journal of Pattern Recognition and Artificial Intelligence, 0, , .	0.7	0
155	Multi-Modal Sparse Tracking by Jointing Timing and Modal Consistency. International Journal of Pattern Recognition and Artificial Intelligence, 0, , .	0.7	0