Bin Fang

List of Publications by Year
in descending order

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	A General Matrix Function Dimensionality Reduction Framework and Extension for Manifold Learning. IEEE Transactions on Cybernetics, 2022, 52, 2137-2148.	6.2	13
2	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
3	Simple and Robust Locality Preserving Projections Based on Maximum Difference Criterion. Neural Processing Letters, 2022, 54, 1783-1804.	2.0	3
4	Optimum Quality Control Algorithm for Versatile Video Coding. IEEE Transactions on Broadcasting, 2022, 68, 582-593.	2.5	7
5	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
6	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
7	A content-oriented no-reference perceptual video quality assessment method for computer graphics animation videos. Information Sciences, 2022, 608, 1731-1746.	4.0	3
8	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
9	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
10	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
11	A Novel Discriminant Locality Preserving Projections Method. Journal of Mathematical Imaging and Vision, 2021, 63, 541.	0.8	14
12	Cascaded Deeply Supervised Convolutional Networks for Liver Lesion Segmentation. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, 2152014.	0.7	1
13	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
14	Blood Vessel Segmentation Based on the 3D Residual U-Net. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, 2157007.	0.7	1
15	3D Segment and Pickup Framework for Pancreas Segmentation. , 2021, , .		0
16	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
17	Perspective Transformation Data Augmentation for Object Detection. IEEE Access, 2020, 8, 4935-4943.	2.6	26
18	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

#	ARTICLE	IF	CITATIONS
19	Just Noticeable Distortion-Based Perceptual Rate Control in HEVC. IEEE Transactions on Image Processing, 2020, 29, 7603-7614.	6.0	35
20	Legendre Based Adaptive Image Segmentation Combining The Gradient Information. , 2020, , .		0
21	Segmentation Algorithm of the Valid Region in Fisheye Images Using Edge and Region Information. , 2020, , .		2
22	Hybrid Active Contour Driven by Double-Weighted Signed Pressure Force for Image Segmentation. , 2020, , .		0
23	DSRPH: Deep semantic-aware ranking preserving hashing for efficient multi-label image retrieval. Information Sciences, 2020, 539, 145-156.	4.0	16
24	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
25	CNN-Based Broad Learning System. , 2019, , .		6
26	Contour Sparse Representation Using Voting Based Matching Pursuit for Road Marking Recognition. IEEE Access, 2019, 7, 144021-144029.	2.6	0
27	Multi-object tracking using deformable convolution networks with tracklets updating. International Journal of Wavelets, Multiresolution and Information Processing, 2019, 17, 1950042.	0.9	3
28	Data Balancing Based on Pre-Training Strategy for Liver Segmentation from CT Scans. Applied Sciences (Switzerland), 2019, 9, 1825.	1.3	1
29	Roadside Traffic Sign Detection Based on Faster R-CNN. , 2019, , .		3
30	Tackling class overlap and imbalance problems in software defect prediction. Software Quality Journal, 2018, 26, 97-125.	1.4	68
31	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
32	Touching Objects Count with Progressive Erosion. , 2018, , .		0
33	Exponential Neighborhood Preserving Embedding for Face Recognition. IEICE Transactions on Information and Systems, 2018, E101.D, 1410-1420.	0.4	12
34	An Improved Local or Global Active Contour Driven by Legendre Polynomials. , 2018, , .		1
35	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
36	Chinese Handwriting Identification Method Based on Keyword Extraction. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1753004.	0.7	2

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37	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
38	A Novel Race Classification Method Based on Periocular Features Fusion. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1750026.	0.7	9
39	Robust face recognition with multi-scale Weber local descriptor. International Journal of Wavelets, Multiresolution and Information Processing, 2017, 15, 1750052.	0.9	4
40	A novel variational method for liver segmentation based on statistical shape model prior and enforced local statistical feature. , 2017, , .		4
41	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
42	An improved active contour model driven by region-scalable and local Gaussian-distribution fitting energy. , 2017, , .		2
43	Exponential neighborhood preserving discriminant embedding for face recognition. , 2017, , .		1
44	Optimized generalized hough transform for road marking recognition application. , 2017, , .		3
45	Spatial-temporal histograms of gradients and HOD-VLAD encoding for human action recognition. , 2017, , .		2
46	Faster R-CNN based microscopic cell detection. , 2017, , .		24
47	Research and implementation of parallel Lane detection algorithm based on GPU. , 2017, , .		1
48	Fast multi-object tracking using convolutional neural networks with tracklets updating. , 2017, , .		3
49	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
50	Turn-Based War Chess Model and Its Search Algorithm per Turn. International Journal of Computer Games Technology, 2016, 2016, 1-14.	1.6	3
51	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
52	Texture image segmentation using fused features and active contour. , 2016, , .		0
53	Pointer-type meter automatic reading from complex environment based on visual saliency. , 2016, , .		8
54	A robust lane detection algorithm based on differential excitation. , 2016, , .		4

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55	Software fault prediction based on one-class SVM. , 2016, , .		6
56	Accurate tilt sensing with single linear model. , 2016, , .		0
57	A factorization based active contour model for texture segmentation. , 2016, , .		15
58	Multi-scale B-spline level set segmentation based on Gaussian kernel equalization. , 2016, , .		5
59	â„<inf>1</inf>-Norm based reconstruction error evaluation for human action recognition. , 2016, , .		1
60	Automatic decision support by rule exhaustion decision tree algorithm. , 2016, , .		3
61	Synthetic Data Generator for Classification Rules Learning. , 2016, , .		5
62	An Efficient Distributed Clustering Protocol Based on Game-Theory for Wireless Sensor Networks. , 2016, , .		5
63	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
64	Negative samples reduction in cross-company software defects prediction. Information and Software Technology, 2015, 62, 67-77.	3.0	131
65	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
66	3D CAD model retrieval based on the combination of features. Multimedia Tools and Applications, 2015, 74, 4907-4925.	2.6	12
67	Fast and accurate vanishing point detection in complex scenes. , 2014, , .		2
68	Deterministic Echo State Networks Based Stock Price Forecasting. Abstract and Applied Analysis, 2014, 2014, 1-6.	0.3	10
69	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
70	Real-time object tracking in video pictures based on self-organizing map and image segmentation. , 2014, , .		4
71	Robust inverse perspective mapping based on vanishing point. , 2014, , .		23
72	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

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73	3D topological construction model of hepatic vascular tree in CT angiography. , 2013, , .		1
74	Improved active shape model for facial feature localization using poem descriptor. , 2013, , .		0
75	Visual saliency detection with center shift. Neurocomputing, 2013, 103, 63-74.	3.5	17
76	A Robust Inclinometer System With Accurate Calibration of Tilt and Azimuth Angles. IEEE Sensors Journal, 2013, 13, 2313-2321.	2.4	22
77	OCCLUSION ROBUST FACE RECOGNITION WITH SCATTERING OPERATOR IN GRADIENT DOMAIN. International Journal of Wavelets, Multiresolution and Information Processing, 2013, 11, 1350001.	0.9	1
78	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
79	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
80	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
81	A Combined Approach on RBC Image Segmentation through Shape Feature Extraction. Mathematical Problems in Engineering, 2012, 2012, 1-20.	0.6	3
82	MULTI-SCALE GRADIENT INVARIANT FOR FACE RECOGNITION UNDER VARYING ILLUMINATION. International Journal of Pattern Recognition and Artificial Intelligence, 2012, 26, 1256016.	0.7	4
83	Visual saliency estimation using support value transform. , 2012, , .		0
84	Nonlinear Time Series: Computations and Applications 2012. Mathematical Problems in Engineering, 2012, 2012, 1-4.	0.6	0
85	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
86	A salient hierarchical model for object recognition. , 2012, , .		0
87	Neighborhood distance and its application in image fusion. , 2012, , .		1
88	Document Clustering in Correlation Similarity Measure Space. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1002-1013.	4.0	27
89	Adaptive binarization: A new approach to license plate characters segmentation. , 2012, , .		11
90	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

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91	Accurate Tilt Sensing with Linear Model. IEEE Sensors Journal, 2011, , .	2.4	22
92	Preference ontology-oriented metric model for trustworthy Web services. International Journal of Intelligent Systems, 2011, 26, 158-168.	3.3	2
93	Design of an interactive 3D medical visualization system. , 2011, , .		4
94	Adaboost algorithm based on MB-LBP features with skin color segmentation for face detection. , 2011, , .		18
95	BIONIC FACE RECOGNITION USING GABOR TRANSFORMATION. International Journal of Pattern Recognition and Artificial Intelligence, 2011, 25, 391-402.	0.7	12
96	Face recognition using variance weightiness LBP based on single training image per person. , 2011, , .		1
97	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
98	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
99	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
100	Traffic Sign Segmentation and Recognition in Scene Images. , 2010, , .		6
101	Learning the Informative Components in Nonnegative Matrix Factorization. , 2010, , .		0
102	Video-Based Signature Verification by Tracking Pen Tip Using Particle Filter Combined with Template Matching. , 2010, , .		0
103	Wavelet-Based Multi-Level Image Matching with Detail Measure Weight for Face Recognition under Varying Illumination. , 2010, , .		1
104	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
105	A LEAST-SQUARES MODEL TO ORTHOGONAL LINEAR DISCRIMINANT ANALYSIS. International Journal of Pattern Recognition and Artificial Intelligence, 2010, 24, 635-650.	0.7	3
106	Keyword Extraction from Handwritten Chinese Document Image Based on Matching and Voting of the Local Topological Structure. , 2010, , .		0
107	RBC Image Segmentation Based on Shape Reconstruction and Multi-scale Surface Fitting. , 2010, , .		3
108	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

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109	An efficient casts recognition algorithm in urinary sediment images. , 2010, , .		0
110	MWD drilling mud signal de-noising and signal extraction research based on the pulse-code information. , 2010, , .		11
111	A New Fingerprint Thinning Algorithm. , 2010, , .		4
112	Texture image segmentation using complex wavelet transform and Hidden Markov models. , 2009, , .		1
113	Weightiness image partition in 3D face recognition. , 2009, , .		1
114	Coarse-to-Fine Particle Segmentation in Microscopic Urinary Images. , 2009, , .		6
115	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
116	A Novel Approach for Face Recognition Based on Weightiness Image Partition. , 2009, , .		0
117	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
118	Multiscale facial structure representation for face recognition under varying illumination. Pattern Recognition, 2009, 42, 251-258.	5.1	166
119	Model-based signature verification with rotation invariant features. Pattern Recognition, 2009, 42, 1458-1466.	5.1	47
120	Character recognition of license plate image based on multiple classifiers. , 2009, , .		4
121	Automated classfication of particles in urinary sediment. , 2009, , .		1
122	Automatic detecting and recognition of casts in urine sediment images. , 2009, , .		5
123	Face recognition under varying illumination using adaptive filtering. , 2009, , .		5
124	Discriminant Isomap projection. , 2009, , .		0
125	Sift features based object tracking with discrete wavelet transform. , 2009, , .		4
126	Face Recognition Under Varying Illumination Using Gradientfaces. IEEE Transactions on Image Processing, 2009, 18, 2599-2606.	6.0	365

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127	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
128	Trustworthy metrics models for internetware. Wuhan University Journal of Natural Sciences, 2008, 13, 547-552.	0.2	6
129	Topology Preserving Non-negative Matrix Factorization for Face Recognition. IEEE Transactions on Image Processing, 2008, 17, 574-584.	6.0	127
130	Affective Computing and Biometrics Based HCI Surveillance System. , 2008, , .		6
131	An efficient regularized neighborhood discriminant analysis through QR decomposition. , 2008, , .		0
132	A novel constraint non-negative matrix factorization criterion based incremental learning in face recognition. , 2008, , .		1
133	Image segmentation based on Fuzzy hypergraph Model. , 2008, , .		1
134	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
135	Incremental Nonnegative Matrix Factorization for Face Recognition. Mathematical Problems in Engineering, 2008, 2008, 1-17.	0.6	26
136	Direct Neighborhood Discriminant Analysis for Face Recognition. Mathematical Problems in Engineering, 2008, 2008, 1-15.	0.6	0
137	Offline signature verification:A new rotation invariant approach. , 2007, , .		3
138	Offline signature verification based on the gabor transform. , 2007, , .		3
139	Laplacianfaces incorporated inside nonnegative matrix factorization for face recognition. , 2007, , .		0
140	A method for multiple morph targets tracking based on region growing. , 2007, , .		0
141	Face Recognition Using Topology Preserving Nonnegative Matrix Factorization. , 2007, , .		0
142	Signature envelope curvature descriptor for offline signature verification. , 2007, , .		8
143	Elastic Registration for Retinal Images Based on Reconstructed Vascular Trees. IEEE Transactions on Biomedical Engineering, 2006, 53, 1183-1187.	2.5	48
144	Shannon Wavelet Kernel based Subspace LDA Approach in Face Recognition. , 2006, , .		4

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145	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
146	THINNING CHARACTER USING MODULUS MINIMA OF WAVELET TRANSFORM. International Journal of Pattern Recognition and Artificial Intelligence, 2006, 20, 361-375.	0.7	28
147	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
148	HANDWRITING-BASED PERSONAL IDENTIFICATION. International Journal of Pattern Recognition and Artificial Intelligence, 2006, 20, 209-225.	0.7	13
149	MORPHOLOGICAL STRUCTURE RECONSTRUCTION OF RETINAL VESSELS IN FUNDUS IMAGES. International Journal of Pattern Recognition and Artificial Intelligence, 2005, 19, 937-948.	0.7	6
150	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
151	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
152	VLSs: A Local Search Algorithm for Distributed Constraint Optimization Problems. International Journal of Pattern Recognition and Artificial Intelligence, 0, , .	0.7	1
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