zhenmin Tang

List of Publications by Year
in descending order

177 papers	2,638 citations	304743 22 h-index	289244 40 g-index
179 all docs	179 docs citations	179 times ranked	2164 citing authors

#	Article	IF	Citations
1	Minimum cost attribute reduction in decision-theoretic rough set models. Information Sciences, 2013, 219, 151-167.	6.9	192
2	Inductive Hashing on Manifolds. , 2013, , .		183
3	On an optimization representation of decision-theoretic rough set model. International Journal of Approximate Reasoning, 2014, 55, 156-166.	3.3	120
4	Hashing on Nonlinear Manifolds. IEEE Transactions on Image Processing, 2015, 24, 1839-1851.	9.8	120
5	Non-Salient Region Object Mining for Weakly Supervised Semantic Segmentation. , 2021, , .		103
6	A theorem on the uncorrelated optimal discriminant vectors. Pattern Recognition, 2001, 34, 2041-2047.	8.1	101
7	Feature extraction using local structure preserving discriminant analysis. Neurocomputing, 2014, 140, 104-113.	5.9	87
8	Hierarchical initialization approach for K-Means clustering. Pattern Recognition Letters, 2008, 29, 787-795.	4.2	68
9	Exploiting Web Images for Dataset Construction: A Domain Robust Approach. IEEE Transactions on Multimedia, 2017, 19, 1771-1784.	7.2	68
10	Jo-SRC: A Contrastive Approach for Combating Noisy Labels. , 2021, , .		65
11	TargetATPsite: A template–free method for ATP–binding sites prediction with residue evolution image sparse representation and classifier ensemble. Journal of Computational Chemistry, 2013, 34, 974-985.	3.3	64
12	WLBP: Weber local binary pattern for local image description. Neurocomputing, 2013, 120, 325-335.	5.9	63
13	Improving protein-ATP binding residues prediction by boosting SVMs with random under-sampling. Neurocomputing, 2013, 104, 180-190.	5.9	62
14	Feature Affinity-Based Pseudo Labeling for Semi-Supervised Person Re-Identification. IEEE Transactions on Multimedia, 2019, 21, 2891-2902.	7.2	49
15	Modified particle filter-based infrared pedestrian tracking. Infrared Physics and Technology, 2010, 53, 280-287.	2.9	45
16	Extracting Privileged Information for Enhancing Classifier Learning. IEEE Transactions on Image Processing, 2019, 28, 436-450.	9.8	39
17	Extracting Multiple Visual Senses for Web Learning. IEEE Transactions on Multimedia, 2019, 21, 184-196.	7.2	34
18	Pavement crack detection based on saliency and statistical features. , 2013, , .		31

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19	QMOR: QoS-Aware Multi-sink Opportunistic Routing for Wireless Multimedia Sensor Networks. Wireless Personal Communications, 2014, 75, 1307-1330.	2.7	29
20	Constructing Query-Driven Dynamic Machine Learning Model With Application to Protein-Ligand Binding Sites Prediction. IEEE Transactions on Nanobioscience, 2015, 14, 45-58.	3.3	29
21	Double Constrained NMF for Partial Multi-View Clustering. , 2016, , .		28
22	Feature mask network for person re-identification. Pattern Recognition Letters, 2020, 137, 91-98.	4.2	28
23	Robust gait recognition using hybrid descriptors based on Skeleton Gait Energy Image. Pattern Recognition Letters, 2021, 150, 289-296.	4.2	27
24	Fast and Accurate Human Detection Using a Cascade of Boosted MS-LBP Features. IEEE Signal Processing Letters, 2012, 19, 676-679.	3.6	26
25	Enhancing Membrane Protein Subcellular Localization Prediction by Parallel Fusion of Multi-View Features. IEEE Transactions on Nanobioscience, 2012, 11, 375-385.	3.3	24
26	Approximate Least Trimmed Sum of Squares Fitting and Applications in Image Analysis. IEEE Transactions on Image Processing, 2013, 22, 1836-1847.	9.8	24
27	A Domain Robust Approach For Image Dataset Construction. , 2016, , .		23
28	Theory and application of multi-robot service-oriented architecture. IEEE/CAA Journal of Automatica Sinica, 2016, 3, 15-25.	13.1	22
29	Exploiting Web Images for Fine-Grained Visual Recognition by Eliminating Open-Set Noise and Utilizing Hard Examples. IEEE Transactions on Multimedia, 2022, 24, 546-557.	7.2	22
30	Semantically Meaningful Class Prototype Learning for One-Shot Image Segmentation. IEEE Transactions on Multimedia, 2022, 24, 968-980.	7.2	22
31	Robust CNN-based Gait Verification and Identification using Skeleton Gait Energy Image. , 2018, , .		21
32	Data-driven Meta-set Based Fine-Grained Visual Recognition. , 2020, , .		21
33	Local Structure-Based Sparse Representation for Face Recognition. ACM Transactions on Intelligent Systems and Technology, 2015, 7, 1-20.	4.5	20
34	A Novel Dynamic Obstacle Avoidance Algorithm Based on Collision Time Histogram. Chinese Journal of Electronics, 2017, 26, 522-529.	1.5	20
35	SegEQA: Video Segmentation Based Visual Attention for Embodied Question Answering. , 2019, , .		20
36	Learning protein multi-view features in complex space. Amino Acids, 2013, 44, 1365-1379.	2.7	19

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37	Fusing hierarchical multi-scale local binary patterns and virtual mirror samples to perform face recognition. Neural Computing and Applications, 2015, 26, 2013-2026.	5.6	18
38	Priority-based IEEE 802.15.4 CSMA/CA mechanism for WSNs. Journal of China Universities of Posts and Telecommunications, 2013, 20, 47-53.	0.8	17
39	Locality constrained representation based classification with spatial pyramid patches. Neurocomputing, 2013, 101, 104-115.	5.9	17
40	Sparse representation-based ECG signal enhancement and QRS detection. Physiological Measurement, 2016, 37, 2093-2110.	2.1	17
41	Statistical performance of convex low-rank and sparse tensor recovery. Pattern Recognition, 2019, 93, 193-203.	8.1	17
42	True-Color and Grayscale Video Person Re-Identification. IEEE Transactions on Information Forensics and Security, 2020, 15, 115-129.	6.9	16
43	åŸºäºŽŽ̂†ç»ˊåˈŒä¸‰é˜¶ç‰¹å¾é‡ç§„ç°¢¤åˈ°ç̂®æ‡æ£€æµ‹. Chinese Optics Letters, 2009, 7, 931.	2.9	15
44	Asymptotic stability of bidirectional associative memory neural networks with time-varying delays via delta operator approach. Neurocomputing, 2013, 117, 40-46.	5.9	15
45	Discriminant similarity and variance preserving projection for feature extraction. Neurocomputing, 2014, 139, 180-188.	5.9	15
46	A new web-supervised method for image dataset constructions. Neurocomputing, 2017, 236, 23-31.	5.9	15
47	Enhanced Feature Alignment for Unsupervised Domain Adaptation of Semantic Segmentation. IEEE Transactions on Multimedia, 2022, 24, 1042-1054.	7.2	15
48	Multi-View Label Prediction for Unsupervised Learning Person Re-Identification. IEEE Signal Processing Letters, 2021, 28, 1390-1394.	3.6	14
49	An Adaptive Opportunistic Network Coding Mechanism in Wireless Multimedia Sensor Networks. International Journal of Distributed Sensor Networks, 2012, 8, 565604.	2.2	13
50	Fast approximate L_{ℓ} minimization: Speeding up robust regression. Computational Statistics and Data Analysis, 2014, 77, 25-37.	1.2	13
51	Local maximal margin discriminant embedding for face recognition. Journal of Visual Communication and Image Representation, 2014, 25, 296-305.	2.8	13
52	Extracting Useful Knowledge from Noisy Web Images via Data Purification for Fine-Grained Recognition. , 2021, , .		13
53	Fast total variation deconvolution for blurred image contaminated by Poisson noise. Journal of Visual Communication and Image Representation, 2016, 38, 582-594.	2.8	12
54	Automatic image dataset construction with multiple textual metadata. , 2016, , .		12

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55	Information-theoretic measures of uncertainty for interval-set decision tables. Information Sciences, 2021, 577, 81-104.	6.9	12
56	Optimal Deployment and Scheduling with Directional Sensors for Energy-Efficient Barrier Coverage. International Journal of Distributed Sensor Networks, 2014, 10, 596983.	2.2	11
57	Local Competition-Based Superpixel Segmentation Algorithm in Remote Sensing. Sensors, 2017, 17, 1364.	3.8	11
58	Strong barrier coverage of directional sensor networks with mobile sensors. International Journal of Distributed Sensor Networks, 2018, 14, 155014771876158.	2.2	11
59	Dense Semantics-Assisted Networks for Video Action Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3073-3084.	8.3	11
60	Kernel-based improved discriminant analysis and its application to face recognition. Soft Computing, 2010, 14, 103-111.	3.6	10
61	A Hierarchical Framework Approach for Voice Activity Detection and Speech Enhancement. Scientific World Journal, The, 2014, 2014, 1-8.	2.1	10
62	Cooperative Search and Rescue with Artificial Fishes Based on Fish-Swarm Algorithm for Underwater Wireless Sensor Networks. Scientific World Journal, The, 2014, 2014, 1-10.	2.1	10
63	Boosting Separability in Semisupervised Learning for Object Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 1197-1208.	8.3	10
64	Exploiting Universum data in AdaBoost using gradient descent. Image and Vision Computing, 2014, 32, 550-557.	4.5	10
65	Proportional fair resource allocation based on hybrid ant colony optimization for slow adaptive OFDMA system. Information Sciences, 2015, 293, 1-10.	6.9	10
66	Uncertainty measures for interval set information tables based on interval δ-similarity relation. Information Sciences, 2019, 501, 272-292.	6.9	10
67	Intelligent Service Recommendation for Cold-Start Problems in Edge Computing. IEEE Access, 2019, 7, 46637-46645.	4.2	10
68	Exploiting textual queries for dynamically visual disambiguation. Pattern Recognition, 2021, 110, 107620.	8.1	10
69	Infrared human tracking with improved mean shift algorithm based on multicue fusion. Applied Optics, 2009, 48, 4201.	2.1	9
70	Nearest-neighbor classifier motivated marginal discriminant projections for face recognition. Frontiers of Computer Science, 2011, 5, 419-428.	0.6	9
71	Deep representation learning for road detection using Siamese network. Multimedia Tools and Applications, 2019, 78, 24269-24283.	3.9	9
72	Proportional fairness resource allocation scheme based on quantised feedback for multiuser orthogonal frequency division multiplexing system. IET Communications, 2014, 8, 2925-2932.	2.2	8

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73	Robust subspace clustering via joint weighted Schatten- p norm and L_q norm minimization. Journal of Electronic Imaging, 2017, 26, 033021.	0.9	8
74	Speech Enhancement Based on NMF Under Electric Vehicle Noise Condition. IEEE Access, 2018, 6, 9147-9159.	4.2	8
75	Classification Constrained Discriminator For Domain Adaptive Semantic Segmentation. , 2020, , .		8
76	Robust Learning From Noisy Web Images Via Data Purification for Fine-Grained Recognition. IEEE Transactions on Multimedia, 2022, 24, 1198-1209.	7.2	8
77	A Visibility-Based Algorithm for Multi-Robot Boundary Coverage. International Journal of Advanced Robotic Systems, 2008, 5, 7.	2.1	7
78	A bat-like switched flying and adhesive robot. , 2012, , .		7
79	Local structure based sparse representation for face recognition with single sample per person. , 2014, , .		7
80	Hybrid genetic algorithm based resource allocation for slow adaptive OFDMA system under channel uncertainty. Electronics Letters, 2014, 50, 30-32.	1.0	7
81	Web-Supervised Network for Fine-Grained Visual Classification. , 2020, , .		7
82	Incomplete Variable Multigranulation Rough Sets Decision. Applied Mathematics and Information Sciences, 2014, 8, 1159-1166.	0.5	7
83	Exploiting Web Images for Fine-Grained Visual Recognition via Dynamic Loss Correction and Global Sample Selection. IEEE Transactions on Multimedia, 2022, 24, 1105-1115.	7.2	7
84	Guided by Meta-Set: A Data-Driven Method for Fine-Grained Visual Recognition. IEEE Transactions on Multimedia, 2023, 25, 4691-4703.	7.2	7
85	Extensions of dominance-based rough set approach in incomplete information system. Automatic Control and Computer Sciences, 2008, 42, 255-263.	0.8	6
86	Abnormal behavior recognition system for ATM monitoring by RGB-D camera. , 2012, , .		6
87	I-vector based speaker gender recognition. , 2015, , .		6
88	Deep Learning for Person Reidentification Using Support Vector Machines. Advances in Multimedia, 2017, 2017, 1-12.	0.4	6
89	Center Based Pseudo-Labeling For Semi-Supervised Person Re-Identification. , 2018, , .		6
90	Exploiting textual and visual features for image categorization. Pattern Recognition Letters, 2019, 117, 140-145.	4.2	6

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91	Extracting Privileged Information from Untagged Corpora for Classifier Learning. , 2018, , .		6
92	Automatic image de-weathering using physical model and maximum entropy. , 2008, , .		5
93	A New Resampling Strategy about Particle Filter Algorithm Applied in Monte Carlo Framework. , 2009, , .		5
94	Energy efficient barrier coverage in hybrid directional sensor networks. , 2015, , .		5
95	Denoising and baseline correction of ECG signals using sparse representation. , 2015, , .		5
96	L2OR: Low-Cost Low-Complexity Opportunistic Routing for Wireless Sensor Networks. Wireless Personal Communications, 2015, 82, 401-422.	2.7	5
97	Deep Convex NMF for Image Clustering. Lecture Notes in Computer Science, 2016, , 583-590.	1.3	5
98	A modification of kernel discriminant analysis for high-dimensional data—with application to face recognition. Signal Processing, 2010, 90, 2423-2430.	3.7	4
99	Path tracking of unmanned vehicle based on parameters self-tuning fuzzy control. , 2013, , .		4
100	C2EM: cloud-assisted complex event monitoring in wireless multimedia sensor networks. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	4
101	Power system protection education and digital relay training based on a physical platform. , 2016, , .		4
102	Maximum Likelihood Estimation of Monocular Optical Flow Field for Mobile Robot Ego-Motion. International Journal of Advanced Robotic Systems, 2016, 13, 12.	2.1	4
103	Path Planning for Nonholonomic Car-like Mobile Robots Using Genetic Algorithms. , 2006, , .		3
104	Neural Network Ensemble Based on Vowel Classification for Chinese Speaker Recognition. , 2007, , .		3
105	Ensemble Learning and Optimizing KNN Method for Speaker Recognition. , 2007, , .		3
106	Speaker identification using multi-step clustering algorithm with transformation-based GMM. Automatic Control and Computer Sciences, 2007, 41, 224-231.	0.8	3
107	An Efficient Algorithm for Infrared Small Target Detection. , 2009, , .		3
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110	A novel SRC fusion method using hierarchical multi-scale LBP and greedy search strategy. Neurocomputing, 2015, 151, 1455-1467.	5.9	3
111	Extracting Visual Knowledge from the Internet: Making Sense of Image Data. Lecture Notes in Computer Science, 2016, , 862-873.	1.3	3
112	Local and global regularized concept factorization for image clustering. Journal of Electronic Imaging, 2017, 26, 013003.	0.9	3
113	Lightweight mixture faults detection method for gasoline engine using on-line trend analysis. International Journal of Automotive Technology, 2017, 18, 365-375.	1.4	3
114	Robust Gait Recognition under Unconstrained Environments Using Hybrid Descriptions. , 2017, , .		3
115	Fast non-blind deconvolution method for blurred image corrupted by poisson noise. , 2017, , .		3
116	Single-Sample Face Recognition Based on Shared Generative Adversarial Network. Mathematics, 2022, 10, 752.	2.2	3
117	Real time road sign detection based on rotational center voting and shape analysis. , 2012, , .		2
118	Finding structural patterns in complex networks. , 2012, , .		2
119	A new approach of formation navigation derived from multi-robots cooperative online FastSLAM. Journal of Control Theory and Applications, 2012, 10, 451-457.	0.8	2
120	Efficient People Counting with Limited Manual Interferences. , 2014, , .		2
121	A Fast Generalized Low Rank Representation Framework Based on $L_{2,p}$ Norm Minimization for Subspace Clustering. IEEE Access, 2017, 5, 23299-23311.	4.2	2
122	Uniform Generic Representation for Single Sample Face Recognition. IEEE Access, 2020, 8, 158281-158292.	4.2	2
123	Local Similarity Based Linear Discriminant Analysis for Face Recognition with Single Sample per Person. Lecture Notes in Computer Science, 2015, , 85-95.	1.3	2
124	Idology and Its Applications in Public Security and Network Security. Lecture Notes in Computer Science, 2017, , 129-149.	1.3	2
125	Transformation-Based GMM with Improved Cluster Algorithm for Speaker Identification. , 2007, , 1006-1014.		2
126	Dynamic Re-Weighting and Cross-Camera Learning for Unsupervised Person Re-Identification. Mathematics, 2022, 10, 1654.	2.2	2

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127	One effective method for ship recognition in ship locks. , 1999, 3720, 467.		1
128	An Efficient Algorithm for Meaningful SLCA in XML Keyword Search. , 2009, , .		1
129	A study on speaker identification based on weighted LS-SVM. Automatic Control and Computer Sciences, 2009, 43, 328-335.	0.8	1
130	Design and Implementation of a Real-Time Speaker Identification System with Improved GMM. , 2009, , .		1
131	Architecture Design for Intelligent Vehicle Computing Platform Based on Internet of Vehicles. Applied Mechanics and Materials, 0, 253-255, 1423-1426.	0.2	1
132	An Eye States Detection Method by Using WLBP. , 2013, , .		1
133	Flow-correlation-aware opportunistic network coding for video streaming over wireless networks. , 2013, , .		1
134	Feature extraction using graph discriminant embedding. , 2013, , .		1
135	Local Geometry Feature Extraction for Face Sketch Recognition. , 2014, , .		1
136	Pavement crack detection based on improved tensor voting. , 2014, , .		1
137	Exploiting Visual Saliency and Bag-of-Words for Road Sign Recognition. IEICE Transactions on Information and Systems, 2014, E97.D, 2473-2482.	0.7	1
138	Application of RBF neural network based on AP clustering in engine fault diagnosis. , 2015, , .		1
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142	Exploiting Category Similarity-Based Distributed Labeling for Fine-Grained Visual Classification. IEEE Access, 2020, 8, 186679-186690.	4.2	1
143	Semi-Paired Asymmetric Deep Cross-Modal Hashing Learning. IEEE Access, 2020, 8, 113814-113825.	4.2	1
144	The Algorithm for Unstructured Road to Abstract Road Surface based on Color Feature. , 2012, , .		1

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145	Autonomous Navigation Trajectory Evaluation Method Based on Uncertainty Analysis. Jiqiren/Robot, 2013, 35, 194.	0.4	1
146	Salient Object Detection Based on Regional Contrast and Relative Spatial Compactness. KSII Transactions on Internet and Information Systems, 2013, 7, 2737-2753.	0.3	1
147	Fast Single Image Super Resolution Reconstruction via Image Separation. Journal of Networks, 2014, 9, .	0.4	1
148	Autonomy Evaluation Methods for the Autonomous Ground Vehicles. , 2015, , .		1
149	A Semi-supervised Learning Algorithm Based on Low Rank and Weighted Sparse Graph for Face Recognition. Lecture Notes in Computer Science, 2016, , 121-129.	1.3	1
150	Patch based Semi-supervised Linear Regression for Face Recognition. KSII Transactions on Internet and Information Systems, 2019, 13, .	0.3	1
151	Generative Adversarial and Self-Attention Based Fine-Grained Cross-Media Retrieval. , 2020, , .		1
152	<title>Novel approach of better understanding the complicated environment from the laser radar's range data</title>. , 1994, , .		0
153	<title>Split-and-merge segmentation using relation stable state</title>. , 2001, 4550, 302.		0
154	A Method of Biomimetic Pattern Recognition for Speaker Recognition. , 2006, , .		0
155	Research on Automatic Speaker Recognition Based on Speech Clustering. , 0, , .		0
156	Building Configuration Space for Multiple UGVs. , 2006, , .		0
157	Two-Dimensional Technique for Image Presentation and its Application. , 2006, , .		0
158	Design and Development of Multi-Robot Architecture and Decision-Making Model. , 2007, , .		0
159	Dominance-based rough set approach to incomplete fuzzy information system. , 2008, , .		0
160	Calibration of medical x-ray apparatus with deformation. Optical Engineering, 2008, 47, 126501.	1.0	0
161	Effective XML Keyword Search Algorithm for Meaningful Return Information. , 2009, , .		0
162	Research on the Parameter Optimal Algorithm of Gaussian Mixture Model in Speaker Identification. , 2009, , .		0

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163	The Almost Sure Convergence of the Auxiliary Particle Filter. , 2010, , .		0
164	Adaptive Appearance Tracking Model Using Subspace Learning Method. , 2010, , .		0
165	Multi-EKF Localization Algorithm for Multi-Robots Formation Navigation. Advanced Materials Research, 0, 383-390, 5648-5655.	0.3	0
166	Training boosting-like algorithms with semi-supervised subspace learning. , 2013, , .		0
167	An improved Gravitational Search Algorithm based on single dimension swimming. , 2013, , .		0
168	The Application of Electronic Forensics Technology in Food Safety Traceability System under the Environment of Cloud Computing. Advance Journal of Food Science and Technology, 2015, 8, 716-719.	0.1	0
169	Robust Principal Component Analysis Based Speaker Verification Under Additive Noise Conditions. Communications in Computer and Information Science, 2016, , 598-606.	0.5	0
170	Pilot Backup Protection Based on Wireless Communication. , 2017, , .		0
171	Nonnegative matrix factorization with region sparsity learning for hyperspectral unmixing. International Journal of Wavelets, Multiresolution and Information Processing, 2017, 15, 1750063.	1.3	0
172	Historical Image Annotation by Exploring the Tag Relevance. , 2017, , .		0
173	Statistical Performance of Convex Low-Rank and Sparse Tensor Recovery. , 2017, , .		0
174	Real-Time Head Pose Estimation by RGB-D Camera. Lecture Notes in Computer Science, 2013, , 698-707.	1.3	0
175	Supervised Kernel Self-Organizing Map. Lecture Notes in Computer Science, 2013, , 246-253.	1.3	0
176	Robust FHPD Features from Speech Harmonic Analysis for Speaker Identification. Applied Mathematics and Information Sciences, 2013, 7, 1591-1598.	0.5	0
177	Consensus Filtering Algorithm with Incomplete Measurements. International Journal of Distributed Sensor Networks, 2015, 11, 131247.	2.2	0