

Kar-Ann Toh

List of Publications by Year in descending order

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Version: 2024-02-01

135
papers

2,356
citations

279778

23
h-index

254170

43
g-index

135
all docs

135
docs citations

135
times ranked

1949
citing authors

#	ARTICLE	IF	CITATIONS
1	Extreme Learning Machines [Trends & Controversies]. IEEE Intelligent Systems, 2013, 28, 30-59.	4.0	329
2	Benchmarking a reduced multivariate polynomial pattern classifier. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 740-755.	13.9	111
3	Weighted Online Sequential Extreme Learning Machine for Class Imbalance Learning. Neural Processing Letters, 2013, 38, 465-486.	3.2	92
4	Deterministic Neural Classification. Neural Computation, 2008, 20, 1565-1595.	2.2	89
5	An efficient dynamic reliability-dependent bit allocation for biometric discretization. Pattern Recognition, 2012, 45, 1960-1971.	8.1	82
6	Between Classification-Error Approximation and Weighted Least-Squares Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 658-669.	13.9	69
7	Micro-Doppler Mini-UAV Classification Using Empirical-Mode Decomposition Features. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 227-231.	3.1	69
8	Face detection based on skin color likelihood. Pattern Recognition, 2014, 47, 1573-1585.	8.1	68
9	SVM-based feature extraction for face recognition. Pattern Recognition, 2010, 43, 2871-2881.	8.1	61
10	Biometric scores fusion based on total error rate minimization. Pattern Recognition, 2008, 41, 1066-1082.	8.1	59
11	DEWS: A Live Visual Surveillance System for Early Drowning Detection at Pool. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 196-210.	8.3	54
12	Realtime training on mobile devices for face recognition applications. Pattern Recognition, 2011, 44, 386-400.	8.1	54
13	Maximizing area under ROC curve for biometric scores fusion. Pattern Recognition, 2008, 41, 3373-3392.	8.1	49
14	New Trends of Learning in Computational Intelligence [Guest Editorial]. IEEE Computational Intelligence Magazine, 2015, 10, 16-17.	3.2	49
15	Model-guided deformable hand shape recognition without positioning aids. Pattern Recognition, 2005, 38, 1651-1664.	8.1	46
16	Density-Dependent Quantized Least Squares Support Vector Machine for Large Data Sets. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 94-106.	11.3	45
17	Incremental face recognition for large-scale social network services. Pattern Recognition, 2012, 45, 2868-2883.	8.1	44
18	A Method to Enhance Face Biometric Security. , 2007, , .		42

#	ARTICLE	IF	CITATIONS
19	Changeable Biometrics for Appearance Based Face Recognition. , 2006, , .		41
20	An empirical study on iris recognition in a mobile phone. Expert Systems With Applications, 2016, 54, 328-339.	7.6	39
21	Stacking PCANet +: An Overly Simplified ConvNets Baseline for Face Recognition. IEEE Signal Processing Letters, 2017, 24, 1581-1585.	3.6	33
22	Combining sclera and periocular features for multi-modal identity verification. Neurocomputing, 2014, 128, 185-198.	5.9	31
23	Secure biometric-key generation with biometric helper. , 2008, , .		30
24	Extracting sclera features for cancelable identity verification. , 2012, , .		30
25	Cancellable biometrics and user-dependent multi-state discretization in BioHash. Pattern Analysis and Applications, 2010, 13, 301-307.	4.6	27
26	Eye detection in a facial image under pose variation based on multi-scale iris shape feature. Image and Vision Computing, 2017, 57, 147-164.	4.5	26
27	An adaptive local binary pattern for 3D hand tracking. Pattern Recognition, 2017, 61, 139-152.	8.1	25
28	Surface Plasmon Localization-Based Super-resolved Raman Microscopy. Nano Letters, 2020, 20, 8951-8958.	9.1	24
29	Gait recognition using multi-bipolarized contour vector. International Journal of Control, Automation and Systems, 2009, 7, 799-808.	2.7	23
30	An Analytic Gabor Feedforward Network for Single-Sample and Pose-Invariant Face Recognition. IEEE Transactions on Image Processing, 2018, 27, 2791-2805.	9.8	23
31	Extraction and fusion of partial face features for cancelable identity verification. Pattern Recognition, 2012, 45, 3288-3303.	8.1	21
32	Object tracking based on an online learning network with total error rate minimization. Pattern Recognition, 2015, 48, 126-139.	8.1	20
33	Extraction and Cross-Matching of Palm-Vein and Palmprint From the RGB and the NIR Spectrums for Identity Verification. IEEE Access, 2020, 8, 4005-4021.	4.2	20
34	A performance driven methodology for cancelable face templates generation. Pattern Recognition, 2010, 43, 2544-2559.	8.1	19
35	An online learning network for biometric scores fusion. Neurocomputing, 2013, 102, 65-77.	5.9	19
36	Biomedical image classification based on a cascade of an SVM with a reject option and subspace analysis. Computers in Biology and Medicine, 2018, 96, 128-140.	7.0	19

#	ARTICLE	IF	CITATIONS
37	A Gabor-based network for heterogeneous face recognition. <i>Neurocomputing</i> , 2017, 261, 253-265.	5.9	18
38	Hybrid ℓ_1/ℓ_2 -Means Clustering and Support Vector Machine Method for via and Metal Line Detections in Delayed IC Images. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018, 65, 1849-1853.	3.0	18
39	A Line Feature Extraction Method for Finger-Knuckle-Print Verification. <i>Cognitive Computation</i> , 2019, 11, 50-70.	5.2	18
40	A system for hand gesture based signature recognition. , 2012, , .		17
41	Learning from Target Knowledge Approximation. , 2006, , .		15
42	Super-resolved Raman microscopy using random structured light illumination: Concept and feasibility. <i>Journal of Chemical Physics</i> , 2021, 155, 144202.	3.0	15
43	Nasal similarity measure of 3D faces based on curve shape space. <i>Pattern Recognition</i> , 2019, 88, 458-469.	8.1	14
44	Training a reciprocal-sigmoid classifier by feature scaling-space. <i>Machine Learning</i> , 2006, 65, 273-308.	5.4	13
45	An online AUC formulation for binary classification. <i>Pattern Recognition</i> , 2012, 45, 2266-2279.	8.1	13
46	Global Optimization by Monotonic Transformation. <i>Computational Optimization and Applications</i> , 2002, 23, 77-99.	1.6	12
47	A center sliding Bayesian binary classifier adopting orthogonal polynomials. <i>Pattern Recognition</i> , 2015, 48, 2013-2028.	8.1	12
48	Exploiting the relationships among several binary classifiers via data transformation. <i>Pattern Recognition</i> , 2014, 47, 1509-1522.	8.1	11
49	LLC encoded BoW features and softmax regression for microscopic image classification. , 2017, , .		11
50	Kernel and Range Approach to Analytic Network Learning. <i>International Journal of Networked and Distributed Computing</i> , 2018, 7, 20.	1.9	11
51	Dynamic Detection-Rate-Based Bit Allocation With Genuine Interval Concealment for Binary Biometric Representation. <i>IEEE Transactions on Cybernetics</i> , 2013, 43, 843-857.	9.5	10
52	An EMD-based micro-Doppler signature analysis for mini-UAV blade flash reconstruction. , 2017, , .		10
53	A collaborative face recognition framework on a social network platform. , 2008, , .		9
54	Learning from the kernel and the range space. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
55	Global Template Projection and Matching Method for Training-Free Analysis of Delayed IC Images. , 2019, , .		9
56	Combining local face image features for identity verification. Neurocomputing, 2011, 74, 2452-2463.	5.9	8
57	Service-oriented architecture based on biometric using random features and incremental neural networks. Soft Computing, 2012, 16, 1539-1553.	3.6	8
58	Twin SVM with a reject option through ROC curve. Journal of the Franklin Institute, 2018, 355, 1710-1732.	3.4	8
59	Pedestrian Detection Using Pixel Difference Matrix Projection. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1441-1454.	8.0	8
60	An analytic layer-wise deep learning framework with applications to robotics. Automatica, 2022, 135, 110007.	5.0	8
61	Sequential extreme learning machine incorporating survival error potential. Neurocomputing, 2015, 155, 194-204.	5.9	7
62	Palm-Vein Verification Using Images From the Visible Spectrum. IEEE Access, 2021, 9, 86914-86927.	4.2	7
63	Fusion of visual and infra-red face scores by weighted power series. Pattern Recognition Letters, 2008, 29, 603-615.	4.2	6
64	An online learning algorithm for biometric scores fusion. , 2010, , .		6
65	An analysis on equal width quantization and linearly separable subcode encoding-based discretization and its performance resemblances. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.7	6
66	Finger-knuckle-print for identity verification based on difference images. , 2016, , .		6
67	EMD-Based Entropy Features for micro-Doppler Mini-UAV Classification. , 2018, , .		6
68	Online Heterogeneous Face Recognition Based on Total-Error-Rate Minimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 1286-1299.	9.3	6
69	Blockwise Recursive Mooreâ€™Penrose Inverse for Network Learning. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3237-3250.	9.3	6
70	An expert autotuner for multiloop SISO controllers. Control Engineering Practice, 1993, 1, 999-1008.	5.5	5
71	An efficient incremental face annotation for large scale web services. Telecommunication Systems, 2011, 47, 197-214.	2.5	5
72	Stretchy binary classification. Neural Networks, 2018, 97, 74-91.	5.9	5

#	ARTICLE	IF	CITATIONS
73	Wi-Fi Based User Identification Using In-Air Handwritten Signature. IEEE Access, 2021, 9, 53548-53565.	4.2	5
74	Robust Identity Verification Based on Infrared Face Images. , 2007, , .		4
75	An error-counting network for pattern classification. Neurocomputing, 2008, 71, 1680-1693.	5.9	4
76	Sparse random projection for efficient cancelable face feature extraction. , 2008, , .		4
77	Fusing horizontal and vertical components of face images for identity verification. , 2009, , .		4
78	An illumination invariant skin-color model for face detection. , 2010, , .		4
79	New Trends of Learning in Computational Intelligence (Part II) [Guest Editorial]. IEEE Computational Intelligence Magazine, 2015, 10, 8-8.	3.2	4
80	Training a multilayer network with low-memory kernel-and-range projection. Journal of the Franklin Institute, 2020, 357, 522-550.	3.4	4
81	Machine learning-based leaky momentum prediction of plasmonic random nanosubstrate. Optics Express, 2021, 29, 30625.	3.4	4
82	An In-Air Signature Verification System Using Wi-Fi Signals. , 2017, , .		4
83	Surrounding adaptive color image enhancement based on CIECAM02. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	3
84	A projection framework for biometric scores fusion. , 2010, , .		3
85	An image edge mask for face identity verification. , 2010, , .		3
86	Biometric security for mobile computing. Security and Communication Networks, 2011, 4, 483-486.	1.5	3
87	Joint kernel collaborative representation on Tensor manifold for face recognition. , 2014, , .		3
88	Palm-Vein Recognition Using RGB Images. , 2018, , .		3
89	Orthogonal filter banks with region Log-TiedRank covariance matrices for face recognition. Journal of Visual Communication and Image Representation, 2018, 55, 548-560.	2.8	3
90	A Data-Driven Iterative Learning Algorithm for Robot Kinematics Approximation. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
91	Transfer Learning of Wi-Fi Handwritten Signature Signals for Identity Verification based on the Kernel and the Range Space Projection. , 2019, , .		3
92	A Low-Memory Learning Formulation for a Kernel-and-Range Network. , 2019, , .		3
93	Delayed IC image analysis with template-based Tanimoto Convolution and Morphological Decision. IET Circuits, Devices and Systems, 2022, 16, 169-177.	1.4	3
94	Error-Rate Based Biometrics Fusion. Lecture Notes in Computer Science, 2007, , 191-200.	1.3	3
95	Performance Based Revocable Biometrics. , 2007, , .		2
96	Direct extraction and fusion of image pixel features for face identity verification. , 2010, , .		2
97	Fusion of visual and infrared face verification systems. Security and Communication Networks, 2011, 4, 500-514.	1.5	2
98	On projection-based methods for periocular identity verification. , 2012, , .		2
99	Face identity verification based on sinusoidal projection. , 2013, , .		2
100	Twisting key absolute space for stretchy polynomial regression. , 2014, , .		2
101	Stretchy multivariate polynomial classification. , 2015, , .		2
102	Exploiting the categorical reliability difference for binary classification. Journal of the Franklin Institute, 2018, 355, 2022-2040.	3.4	2
103	Augmented EMD for complex-valued univariate signals. IET Signal Processing, 2019, 13, 424-433.	1.5	2
104	Training Multilayer Neural Networks Analytically Using Kernel Projection. , 2021, , .		2
105	Optimizing Data Transformation for Binary Classification. International Journal of Computer Theory and Engineering, 2017, 9, 11-15.	3.4	2
106	Training a $\hat{\lambda}$ -Machine Classifier Using Feature Scaling-Space. , 2006, , .		1
107	A Framework for Empirical Classifiers Comparison. , 2006, , .		1
108	A method to combine visual and infrared face image verification systems. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
109	Between AUC based and error rate based learning. , 2008, , .		1
110	Projection learning models. , 2008, , .		1
111	Two-fold regularization for kernel Fisher discriminant analysis in face recognition. IEICE Electronics Express, 2009, 6, 540-545.	0.8	1
112	Adaptive reduced multivariate polynomial equalizers for blu-ray disc channels. IEEE Transactions on Consumer Electronics, 2010, 56, 682-686.	3.6	1
113	Online AUC learning for biometric scores fusion. , 2011, , .		1
114	Visual tracking with online discriminative learning. , 2011, , .		1
115	Fusion of structured projections for cancelable face identity verification. , 2011, , .		1
116	Empirical survival error potential weighted least squares for binary pattern classification. , 2014, , .		1
117	A single layer feedforward fusion network for face verification. , 2014, , .		1
118	Pattern classification adopting multivariate polynomials. , 2014, , .		1
119	A dictionary updating scheme incorporating words elimination into Quantized Kernel Least-Mean-Squares for changing environments. , 2015, , .		1
120	Face recognition based on stretchy regression. , 2016, , .		1
121	A Randomly Weighted Gabor Network for Visual-Thermal Infrared Face Recognition. Proceedings in Adaptation, Learning and Optimization, 2016, , , 335-344.	1.6	1
122	Optimizing between data transformation and parametric weighting for stable binary classification. Journal of the Franklin Institute, 2018, 355, 1614-1637.	3.4	1
123	Correlation Projection for Analytic Learning of a Classification Network. Neural Processing Letters, 2021, 53, 3893.	3.2	1
124	Wi-Fi Based Handwritten Signature Verification Using a Triplet Network. , 2019, , .		1
125	Simple Power Series for Pattern Classification. , 2007, , .		0
126	An Encoding Scheme for Robust Face Recognition. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
127	Robust Identity Verification Based on Infrared Face Images. , 2007, , .		0
128	SVM-based Discriminant Analysis for face recognition. , 2008, , .		0
129	Fusion of visual and infrared face biometric scores by projection. , 2009, , .		0
130	Object tracking based on kernel recursive least-squares with total error rate minimization. , 2013, , .		0
131	Recursive total error rate minimization. , 2016, , .		0
132	A folding sum transformation for binary classification. , 2016, , .		0
133	Analytic radar micro-Doppler signatures classification. Proceedings of SPIE, 2017, , .	0.8	0
134	MULTIMODAL BIOMETRICS: AN OVERVIEW AND SOME RECENT DEVELOPMENTS. , 2011, , 381-400.		0
135	Kernel and Range Approach to Analytic Network Learning. International Journal of Networked and Distributed Computing, 2018, 7, 20.	1.9	0