

Kin-Man Lam

List of Publications by Year in descending order

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189
papers

3,584
citations

126901

33
h-index

161844

54
g-index

190
all docs

190
docs citations

190
times ranked

2247
citing authors

#	ARTICLE	IF	CITATIONS
1	Locating and extracting the eye in human face images. Pattern Recognition, 1996, 29, 771-779.	8.1	273
2	An analytic-to-holistic approach for face recognition based on a single frontal view. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1998, 20, 673-686.	13.9	194
3	An efficient illumination normalization method for face recognition. Pattern Recognition Letters, 2006, 27, 609-617.	4.2	138
4	An efficient algorithm for human face detection and facial feature extraction under different conditions. Pattern Recognition, 2001, 34, 1993-2004.	8.1	124
5	Gabor-based kernel PCA with doubly nonlinear mapping for face recognition with a single face image. IEEE Transactions on Image Processing, 2006, 15, 2481-2492.	9.8	104
6	Simultaneous Hallucination and Recognition of Low-Resolution Faces Based on Singular Value Decomposition. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1761-1772.	8.3	104
7	Extraction of the Euclidean skeleton based on a connectivity criterion. Pattern Recognition, 2003, 36, 721-729.	8.1	101
8	A new key frame representation for video segment retrieval. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 1148-1155.	8.3	93
9	Optimal sampling of Gabor features for face recognition. Pattern Recognition Letters, 2004, 25, 267-276.	4.2	91
10	Illumination invariant face recognition. Pattern Recognition, 2005, 38, 1705-1716.	8.1	78
11	From Local Pixel Structure to Global Image Super-Resolution: A New Face Hallucination Framework. IEEE Transactions on Image Processing, 2011, 20, 433-445.	9.8	75
12	Simplified Gabor wavelets for human face recognition. Pattern Recognition, 2008, 41, 1186-1199.	8.1	68
13	Using the K-Nearest Neighbor Algorithm for the Classification of Lymph Node Metastasis in Gastric Cancer. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-11.	1.3	68
14	A robust scheme for live detection of human faces in color images. Signal Processing: Image Communication, 2003, 18, 103-114.	3.2	67
15	Efficient Edge Detection Using Simplified Gabor Wavelets. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 1036-1047.	5.0	67
16	Face hallucination based on sparse local-pixel structure. Pattern Recognition, 2014, 47, 1261-1270.	8.1	67
17	Spatially eigen-weighted Hausdorff distances for human face recognition. Pattern Recognition, 2003, 36, 1827-1834.	8.1	65
18	An accurate active shape model for facial feature extraction. Pattern Recognition Letters, 2005, 26, 2409-2423.	4.2	65

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19	Generation of moment invariants and their uses for character recognition. Pattern Recognition Letters, 1995, 16, 115-123.	4.2	64
20	Histogram-based local descriptors for facial expression recognition (FER): A comprehensive study. Journal of Visual Communication and Image Representation, 2018, 55, 331-341.	2.8	63
21	Multi-resolution feature fusion for face recognition. Pattern Recognition, 2014, 47, 556-567.	8.1	62
22	An adaptive active contour model for highly irregular boundaries. Pattern Recognition, 2001, 34, 323-331.	8.1	56
23	Facial expression recognition based on shape and texture. Pattern Recognition, 2009, 42, 1003-1011.	8.1	55
24	PromoterExplorer: an effective promoter identification method based on the AdaBoost algorithm. Bioinformatics, 2006, 22, 2722-2728.	4.1	52
25	A novel face-hallucination scheme based on singular value decomposition. Pattern Recognition, 2013, 46, 3091-3102.	8.1	51
26	Example-based image super-resolution with class-specific predictors. Journal of Visual Communication and Image Representation, 2009, 20, 312-322.	2.8	50
27	A Joint Framework for QoS and QoE for Video Transmission over Wireless Multimedia Sensor Networks. IEEE Transactions on Mobile Computing, 2018, 17, 746-759.	5.8	49
28	A fast fractal image coding based on kick-out and zero contrast conditions. IEEE Transactions on Image Processing, 2003, 12, 1398-1403.	9.8	48
29	Human face recognition based on spatially weighted Hausdorff distance. Pattern Recognition Letters, 2003, 24, 499-507.	4.2	42
30	Fast algorithm for locating head boundaries. Journal of Electronic Imaging, 1994, 3, 351.	0.9	41
31	Locating the eye in human face images using fractal dimensions. IET Computer Vision, 2001, 148, 413.	1.3	41
32	Depth Estimation of Face Images Based on the Constrained ICA Model. IEEE Transactions on Information Forensics and Security, 2011, 6, 360-370.	6.9	41
33	A faster converging snake algorithm to locate object boundaries. IEEE Transactions on Image Processing, 2006, 15, 1182-1191.	9.8	37
34	An efficient low bit-rate video-coding algorithm focusing on moving regions. IEEE Transactions on Circuits and Systems for Video Technology, 2001, 11, 1128-1134.	8.3	35
35	Human Face Image Recognition: An Evidence Aggregation Approach. Computer Vision and Image Understanding, 1998, 71, 213-230.	4.7	31
36	The OUC-vision large-scale underwater image database. , 2017, , .		31

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37	Content-based image retrieval via a hierarchical-local-feature extraction scheme. <i>Multimedia Tools and Applications</i> , 2018, 77, 29099-29117.	3.9	30
38	Deep Cross-Modal Representation Learning and Distillation for Illumination-Invariant Pedestrian Detection. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2022, 32, 315-329.	8.3	30
39	Depth Estimation of Face Images Using the Nonlinear Least-Squares Model. <i>IEEE Transactions on Image Processing</i> , 2013, 22, 17-30.	9.8	29
40	An Effective Subsuperpixel-Based Approach for Background Subtraction. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 601-609.	7.9	29
41	Improved searching scheme for fractal image coding. <i>Electronics Letters</i> , 2002, 38, 1653.	1.0	27
42	Frequency layered color indexing for content-based image retrieval. <i>IEEE Transactions on Image Processing</i> , 2003, 12, 102-113.	9.8	27
43	Efficient Fused-Attention Model for Steel Surface Defect Detection. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, , 1-1.	4.7	27
44	Saliency detection using quaternionic distance based weber local descriptor and level priors. <i>Multimedia Tools and Applications</i> , 2018, 77, 14343-14360.	3.9	26
45	Face recognition using elastic local reconstruction based on a single face image. <i>Pattern Recognition</i> , 2008, 41, 406-417.	8.1	24
46	Hybrid Chinese/English text detection in images and video frames. , 0, , .		23
47	An adaptive algorithm for the display of high-dynamic range images. <i>Journal of Visual Communication and Image Representation</i> , 2007, 18, 397-405.	2.8	23
48	Recovering the 3D shape and poses of face images based on the similarity transform. <i>Pattern Recognition Letters</i> , 2008, 29, 712-723.	4.2	23
49	Invertible Image Decolorization. <i>IEEE Transactions on Image Processing</i> , 2021, 30, 6081-6095.	9.8	23
50	Locating head boundary by snakes. , 0, , .		19
51	Elastic shape-texture matching for human face recognition. <i>Pattern Recognition</i> , 2008, 41, 396-405.	8.1	19
52	Face detection using simplified Gabor features and hierarchical regions in a cascade of classifiers. <i>Pattern Recognition Letters</i> , 2009, 30, 717-728.	4.2	19
53	An efficient two-stage framework for image annotation. <i>Pattern Recognition</i> , 2013, 46, 936-947.	8.1	18
54	Multi-scale Capsule Attention-Based Salient Object Detection with Multi-crossed Layer Connections. , 2019, , .		15

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55	Improving Object Detection with Relation Graph Inference. , 2019, , .		15
56	Efficient rotation- and scale-invariant texture classification method based on Gabor wavelets. Journal of Electronic Imaging, 2008, 17, 043026.	0.9	13
57	FSAM: A fast self-adaptive method for correcting non-uniform illumination for 3D reconstruction. Computers in Industry, 2013, 64, 1229-1236.	9.9	13
58	Image magnification based on a blockwise adaptive Markov random field model. Image and Vision Computing, 2008, 26, 1277-1284.	4.5	12
59	Human face recognition using a spatially weighted modified Hausdorff distance. , 0, , .		11
60	Eigentransformation-based face super-resolution in the wavelet domain. Pattern Recognition Letters, 2012, 33, 718-727.	4.2	11
61	Multiple-Kernel, Multiple-Instance Similarity Features for Efficient Visual Object Detection. IEEE Transactions on Image Processing, 2013, 22, 3050-3061.	9.8	11
62	Region-based feature fusion for facial-expression recognition. , 2014, , .		11
63	Face Recognition with Multi-Resolution Spectral Feature Images. PLoS ONE, 2013, 8, e55700.	2.5	10
64	From quaternion to octonion: Feature-based image saliency detection. , 2014, , .		10
65	Scene cut detection using the colored pattern appearance model. , 0, , .		9
66	Video-object segmentation and 3D-trajectory estimation for monocular video sequences. Image and Vision Computing, 2011, 29, 190-205.	4.5	9
67	An efficient local-structure-based face-hallucination method. , 2012, , .		9
68	Joint Spine Segmentation and Noise Removal From Ultrasound Volume Projection Images With Selective Feature Sharing. IEEE Transactions on Medical Imaging, 2022, 41, 1610-1624.	8.9	9
69	MGF6mARice: prediction of DNA N6-methyladenine sites in rice by exploiting molecular graph feature and residual block. Briefings in Bioinformatics, 2022, 23, .	6.5	9
70	Visual saliency detection via combining center prior and U-Net. Multimedia Systems, 2022, 28, 1689-1698.	4.7	9
71	An Efficient Method for Face Recognition under Varying Illumination. , 0, , .		8
72	A hierarchical algorithm for image multi-labeling. , 2010, , .		8

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73	Visual sensitivity-based low-bit-rate image compression algorithm. IET Image Processing, 2012, 6, 910.	2.5	8
74	Saliency detection using quaternionic distance based weber descriptor and object cues. , 2016, , .		8
75	A novel correspondence-based face-hallucination method. Image and Vision Computing, 2017, 60, 171-184.	4.5	8
76	Towards Accurate Pulmonary Nodule Detection by Representing Nodules as Points With High-Resolution Network. IEEE Access, 2020, 8, 157391-157402.	4.2	8
77	See Clearly in the Distance: Representation Learning GAN for Low Resolution Object Recognition. IEEE Access, 2020, 8, 53203-53214.	4.2	8
78	Subspace learning for facial expression recognition: an overview and a new perspective. APSIPA Transactions on Signal and Information Processing, 2021, 10, .	3.3	8
79	A reliable approach for human face detection using genetic algorithm. , 0, , .		7
80	Learning sparse discriminant low-rank features for low-resolution face recognition. Journal of Visual Communication and Image Representation, 2019, 63, 102590.	2.8	7
81	Enhanced Attention Tracking With Multi-Branch Network for Egocentric Activity Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3587-3602.	8.3	7
82	Effective Segmentation Approach for Solar Photovoltaic Panels in Uneven Illuminated Color Infrared Images. IEEE Journal of Photovoltaics, 2021, 11, 478-484.	2.5	7
83	Spatial-Temporal Graphs Plus Transformers for Geometry-Guided Facial Expression Recognition. IEEE Transactions on Affective Computing, 2023, 14, 2751-2767.	8.3	7
84	Computing the inverse DFT with the in-place, in-order prime factor FFT algorithm. IEEE Transactions on Signal Processing, 1995, 43, 2193-2194.	5.3	6
85	Balanced distortion and perception in single-image super-resolution based on optimal transport in wavelet domain. Neurocomputing, 2021, 464, 408-420.	5.9	6
86	An Efficient Algorithm for Ocean-Front Evolution Trend Recognition. Remote Sensing, 2022, 14, 259.	4.0	6
87	Face segmentation and facial feature tracking for videophone applications. , 0, , .		5
88	Channel-adaptive error protection for streaming stored MPEG-4 FGS over error-prone environments. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 649-654.	8.3	5
89	Global face reconstruction for face hallucination using orthogonal canonical correlation analysis. , 2015, , .		5
90	Enhancement of a CNN-Based Denoiser Based on Spatial and Spectral Analysis. , 2019, , .		5

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91	Facial Expressions of Comprehension (FEC). IEEE Transactions on Affective Computing, 2022, 13, 335-346.	8.3	5
92	An efficient algorithm for the extraction of a Euclidean skeleton. , 2002, , .		4
93	An efficient color compensation scheme for skin color segmentation. , 0, , .		4
94	Maximal disk based histogram for shape retrieval. , 0, , .		4
95	Adaptive forward error correction for streaming stored mpeg-4 FGS video over wireless channel. , 0, , .		4
96	Edge detection using simplified Gabor wavelets. , 2008, , .		4
97	Partially occluded face completion and recognition. , 2009, , .		4
98	Feature subset selection for efficient AdaBoost training. , 2011, , .		4
99	Saliency Modulated High Dynamic Range Image Tone Mapping. , 2011, , .		4
100	An Effective Missing-Data Estimation Approach for Small-Size Image Sequences. IEEE Computational Intelligence Magazine, 2015, 10, 10-18.	3.2	4
101	Facial Expressions of Sentence Comprehension. , 2018, , .		4
102	An Effective Membership Probability Representation for Point Set Registration. IEEE Access, 2020, 8, 9347-9357.	4.2	4
103	A Robust Point Set Registration Approach With Multiple Effective Constraints. IEEE Transactions on Industrial Electronics, 2020, 67, 10931-10941.	7.9	4
104	An efficient and accurate algorithm for extracting a skeleton. , 0, , .		3
105	A new approach using modified Hausdorff distances with eigenface for human face recognition. , 0, , .		3
106	An efficient fractal-based algorithm for image magnification. , 0, , .		3
107	An efficient illumination compensation scheme for face recognition. , 0, , .		3
108	Efficient color face detection algorithm under different lighting conditions. Journal of Electronic Imaging, 2006, 15, 013015.	0.9	3

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109	An image magnification algorithm using the GVF constraint model. Journal of Electronics, 2008, 25, 568-571.	0.2	3
110	A Novel Example-Based Super-Resolution Approach Based on Patch Classification and the KPCA Prior Model. , 2008, , .		3
111	A novel optical signal monitoring method of DPSK signal based on delay tap sampling and Hausdorff distance measure. , 2008, , .		3
112	Rotation- and scale-invariant texture classification using slide matching of the gabor feature. , 2009, , .		3
113	Tone mapping HDR images using optimization: A general framework. , 2010, , .		3
114	Learning local pixel structure for face hallucination. , 2010, , .		3
115	Color facial image denoising based on rpca and noisy pixel detection. , 2013, , .		3
116	Segmentation-enhanced saliency detection model based on distance transform and center bias. , 2014, , .		3
117	Feature-aging for age-invariant face recognition. , 2015, , .		3
118	Corn-Plant Counting Using Scare-Aware Feature and Channel Interdependence. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	3
119	Cascaded face alignment via intimacy definition feature. Journal of Electronic Imaging, 2017, 26, 1.	0.9	3
120	An efficient human face indexing scheme using eigenfaces. , 2003, , .		2
121	An effieient algorithm for fractal image coding using kick-out and zero contrast conditions. , 0, , .		2
122	Mean-shift based mixture model for face detection in color image. , 0, , .		2
123	Example selective and order independent learning-based image super-resolution. , 2005, , .		2
124	An Effective Shape-Texture Weighted Algorithm for Multi-view Face Tracking in Videos. , 2008, , .		2
125	Guided iterative back-projection scheme for single-image super-resolution. , 2013, , .		2
126	Fast Eye Detection and Localization Using a Salient Map. , 2013, , 89-99.		2

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127	Pseudo-Gabor wavelet for face recognition. Journal of Electronic Imaging, 2013, 22, 023029.	0.9	2
128	Fast super-resolution based on weighted collaborative representation. , 2014, , .		2
129	Cost-sensitive feature selection in medical data analysis with trace ratio criterion. , 2014, , .		2
130	Efficient likelihood Bayesian constrained local model. , 2017, , .		2
131	Deep Motion-Appearance Convolutions for Robust Visual Tracking. IEEE Access, 2019, 7, 180451-180466.	4.2	2
132	Progressive Motion Representation Distillation With Two-Branch Networks for Egocentric Activity Recognition. IEEE Signal Processing Letters, 2020, 27, 1320-1324.	3.6	2
133	Image Synthesis and Face Recognition Based on 3D Face Model and Illumination Model. Lecture Notes in Computer Science, 2005, , 7-11.	1.3	2
134	AN EFFECTIVE PROMOTER DETECTION METHOD USING THE ADABOOST ALGORITHM. , 2007, , .		2
135	An efficient approach for facial feature detection. , 0, , .		1
136	Automatic Human Face Recognition System Using Fractal Dimension and Modified Hausdorff Distance. Lecture Notes in Computer Science, 2001, , 277-284.	1.3	1
137	A robust algorithm for detection of human faces in color images. , 0, , .		1
138	Sampling Gabor features for face recognition. , 2003, , .		1
139	Efficient human face recognition based on shape and texture. , 0, , .		1
140	An optimal key frame representation for video shot retrieval. , 0, , .		1
141	An accurate active shape model for facial feature extraction. , 0, , .		1
142	Face recognition based on eigen-illumination scheme and uncorrelated discriminant analysis. , 2005, , .		1
143	An efficient video shot representation for fast video retrieval. , 2005, , .		1
144	An effective dissolve detector using spatio-temporal slice. , 2005, , .		1

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145	Image magnification based on adaptive MRF model parameter estimation. , 2005, , .		1
146	Adaptive Alpha-Trimmed Average Operator Based on Gaussian Distribution Hypothesis Test for Image Representation. , 2007, , .		1
147	The GVF Snake with a Minimal Path Approach. , 2007, , .		1
148	Efficient face recognition with a large database. , 2008, , .		1
149	An Efficient Scene-Break Detection Method Based on Linear Prediction With Bayesian Cost Functions. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 1318-1323.	8.3	1
150	Elastic block set reconstruction for face recognition. , 2009, , .		1
151	An image restoration method based on PDEs and a new gradient model. , 2010, , .		1
152	Canny Edge Detection Using Bilateral Filter on Real Hexagonal Structure. Lecture Notes in Computer Science, 2010, , 233-244.	1.3	1
153	Gabor-Feature Hallucination based on Generalized Canonical Correlation Analysis for face recognition. , 2011, , .		1
154	A spectral feature based approach for face recognition with one training sample. , 2012, , .		1
155	Image classification without segmentation using a hybrid pyramid kernel. Multimedia Tools and Applications, 2014, 73, 1195-1224.	3.9	1
156	Fast Vehicle Detection with Lateral Convolutional Neural Network. , 2018, , .		1
157	Constructing an efficient and adaptive learning model for 3D object generation. IET Image Processing, 2021, 15, 1745-1758.	2.5	1
158	Face hallucination based on cluster consistent dictionary learning. IET Image Processing, 2021, 15, 2841-2853.	2.5	1
159	Joint maximum purity forest with application to image super-resolution. Journal of Electronic Imaging, 2018, 27, 1.	0.9	1
160	Image Restoration Based on PDEs and a Non-local Algorithm. Lecture Notes in Computer Science, 2010, , 362-371.	1.3	1
161	Transform-based fine-coarse vector quantization. , 0, , .		0
162	Automatic generation of moment invariants and the use of higher order moments for character recognition. , 0, , .		0

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163	Locating the human eye using fractal dimensions. , 0, , .		0
164	Fast fractal-image compression using feature vector matching. , 2002, , .		0
165	Embedded human face image coding with set partitioning in hierarchical trees. , 0, , .		0
166	An edge-preserved image denoising technique based on iterated function systems. , 2005, 5960, 2023.		0
167	An efficient method for facial expression recognition. , 2005, , .		0
168	A New Cubic Rate Distortion Model for Low-Delay Video Communication. , 0, , .		0
169	Kernel PCA with doubly nonlinear mapping for face recognition. , 2005, , .		0
170	Elastic Local Reconstruction for Human Face Recognition. , 0, , .		0
171	Simplified gabor wavelets for efficient feature extraction. , 2007, , .		0
172	Hybrid learning framework for web information retrieval. , 2008, , .		0
173	Rotation-invariant texture analysis using multi-resolution Slit kernels. , 2009, , .		0
174	Efficient rotation- and scale-invariant texture analysis. Journal of Electronic Imaging, 2010, 19, 043005.	0.9	0
175	Color correction via robust reference selection and recovery using a low-rank matrix model. , 2011, , .		0
176	Facial shape and albedo reconstruction based on a trained prototype. , 2012, , .		0
177	Totally-corrective boosting using continuous-valued weak learners. , 2012, , .		0
178	Phase-based salient object detection. , 2012, , .		0
179	An efficient method for blocky and scratch noise removal. , 2013, , .		0
180	Differentiating pancreatic mucinous cystic neoplasms form serous oligocystic adenomas in spectral CT images using machine learning algorithms: A preliminary study. , 2013, , .		0

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181	Multi-view face hallucination based on sparse representation. , 2013, , .		0
182	A new bottom-up method for saliency detection. , 2013, , .		0
183	Saliency Detection via Background Seeds by Object Proposals. , 2018, , .		0
184	An Accelerated Procrustean Markov Process Model With Coherent Constraint for Non-Rigid Structure From Motion. IEEE Access, 2019, 7, 145013-145021.	4.2	0
185	3D Shape Estimation With an Enhanced Sparse Representation Approach. IEEE Signal Processing Letters, 2021, 28, 1685-1688.	3.6	0
186	A Mass Spectra-Based Compound-Identification Approach with a Reduced Reference Library. Lecture Notes in Computer Science, 2013, , 672-676.	1.3	0
187	A Novel Ensemble Algorithm for Tumor Classification. Lecture Notes in Computer Science, 2013, , 292-298.	1.3	0
188	An adaptive deformable template for mouth boundary modeling. Lecture Notes in Computer Science, 1997, , 559-566.	1.3	0
189	An Effective Approach for NRSFM of Small-Size Image Sequences. PLoS ONE, 2015, 10, e0132370.	2.5	0