

Kin-Man Lam

List of Publications by Year in descending order

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189
papers

3,584
citations

145106

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190
docs citations

190
times ranked

2542
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial-Temporal Graphs Plus Transformers for Geometry-Guided Facial Expression Recognition. IEEE Transactions on Affective Computing, 2023, 14, 2751-2767.	5.7	7
2	Facial Expressions of Comprehension (FEC). IEEE Transactions on Affective Computing, 2022, 13, 335-346.	5.7	5
3	Corn-Plant Counting Using Scare-Aware Feature and Channel Interdependence. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	3
4	Deep Cross-Modal Representation Learning and Distillation for Illumination-Invariant Pedestrian Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 315-329.	5.6	30
5	Enhanced Attention Tracking With Multi-Branch Network for Egocentric Activity Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3587-3602.	5.6	7
6	Joint Spine Segmentation and Noise Removal From Ultrasound Volume Projection Images With Selective Feature Sharing. IEEE Transactions on Medical Imaging, 2022, 41, 1610-1624.	5.4	9
7	An Efficient Algorithm for Ocean-Front Evolution Trend Recognition. Remote Sensing, 2022, 14, 259.	1.8	6
8	MGF6mARice: prediction of DNA N6-methyladenine sites in rice by exploiting molecular graph feature and residual block. Briefings in Bioinformatics, 2022, 23, .	3.2	9
9	Visual saliency detection via combining center prior and U-Net. Multimedia Systems, 2022, 28, 1689-1698.	3.0	9
10	Efficient Fused-Attention Model for Steel Surface Defect Detection. IEEE Transactions on Instrumentation and Measurement, 2022, , 1-1.	2.4	27
11	3D Shape Estimation With an Enhanced Sparse Representation Approach. IEEE Signal Processing Letters, 2021, 28, 1685-1688.	2.1	0
12	Invertible Image Decolorization. IEEE Transactions on Image Processing, 2021, 30, 6081-6095.	6.0	23
13	Subspace learning for facial expression recognition: an overview and a new perspective. APSIPA Transactions on Signal and Information Processing, 2021, 10, .	2.6	8
14	Constructing an efficient and adaptive learning model for 3D object generation. IET Image Processing, 2021, 15, 1745-1758.	1.4	1
15	Effective Segmentation Approach for Solar Photovoltaic Panels in Uneven Illuminated Color Infrared Images. IEEE Journal of Photovoltaics, 2021, 11, 478-484.	1.5	7
16	Face hallucination based on cluster consistent dictionary learning. IET Image Processing, 2021, 15, 2841-2853.	1.4	1
17	Balanced distortion and perception in single-image super-resolution based on optimal transport in wavelet domain. Neurocomputing, 2021, 464, 408-420.	3.5	6
18	An Effective Subsuperpixel-Based Approach for Background Subtraction. IEEE Transactions on Industrial Electronics, 2020, 67, 601-609.	5.2	29

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19	Progressive Motion Representation Distillation With Two-Branch Networks for Egocentric Activity Recognition. IEEE Signal Processing Letters, 2020, 27, 1320-1324.	2.1	2
20	Towards Accurate Pulmonary Nodule Detection by Representing Nodules as Points With High-Resolution Network. IEEE Access, 2020, 8, 157391-157402.	2.6	8
21	An Effective Membership Probability Representation for Point Set Registration. IEEE Access, 2020, 8, 9347-9357.	2.6	4
22	A Robust Point Set Registration Approach With Multiple Effective Constraints. IEEE Transactions on Industrial Electronics, 2020, 67, 10931-10941.	5.2	4
23	See Clearly in the Distance: Representation Learning GAN for Low Resolution Object Recognition. IEEE Access, 2020, 8, 53203-53214.	2.6	8
24	Multi-scale Capsule Attention-Based Salient Object Detection with Multi-crossed Layer Connections. , 2019, , .		15
25	Learning sparse discriminant low-rank features for low-resolution face recognition. Journal of Visual Communication and Image Representation, 2019, 63, 102590.	1.7	7
26	Enhancement of a CNN-Based Denoiser Based on Spatial and Spectral Analysis. , 2019, , .		5
27	An Accelerated Procrustean Markov Process Model With Coherent Constraint for Non-Rigid Structure From Motion. IEEE Access, 2019, 7, 145013-145021.	2.6	0
28	Improving Object Detection with Relation Graph Inference. , 2019, , .		15
29	Deep Motion-Appearance Convolutions for Robust Visual Tracking. IEEE Access, 2019, 7, 180451-180466.	2.6	2
30	A Joint Framework for QoS and QoE for Video Transmission over Wireless Multimedia Sensor Networks. IEEE Transactions on Mobile Computing, 2018, 17, 746-759.	3.9	49
31	Saliency detection using quaternionic distance based weber local descriptor and level priors. Multimedia Tools and Applications, 2018, 77, 14343-14360.	2.6	26
32	Facial Expressions of Sentence Comprehension. , 2018, , .		4
33	Saliency Detection via Background Seeds by Object Proposals. , 2018, , .		0
34	Fast Vehicle Detection with Lateral Convolutional Neural Network. , 2018, , .		1
35	Content-based image retrieval via a hierarchical-local-feature extraction scheme. Multimedia Tools and Applications, 2018, 77, 29099-29117.	2.6	30
36	Histogram-based local descriptors for facial expression recognition (FER): A comprehensive study. Journal of Visual Communication and Image Representation, 2018, 55, 331-341.	1.7	63

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37	Joint maximum purity forest with application to image super-resolution. Journal of Electronic Imaging, 2018, 27, 1.	0.5	1
38	A novel correspondence-based face-hallucination method. Image and Vision Computing, 2017, 60, 171-184.	2.7	8
39	The OUC-vision large-scale underwater image database. , 2017, , .		31
40	Efficient likelihood Bayesian constrained local model. , 2017, , .		2
41	Cascaded face alignment via intimacy definition feature. Journal of Electronic Imaging, 2017, 26, 1.	0.5	3
42	Saliency detection using quaternionic distance based weber descriptor and object cues. , 2016, , .		8
43	Global face reconstruction for face hallucination using orthogonal canonical correlation analysis. , 2015, , .		5
44	Feature-aging for age-invariant face recognition. , 2015, , .		3
45	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.	5.6	104
46	An Effective Missing-Data Estimation Approach for Small-Size Image Sequences. IEEE Computational Intelligence Magazine, 2015, 10, 10-18.	3.4	4
47	An Effective Approach for NRSFM of Small-Size Image Sequences. PLoS ONE, 2015, 10, e0132370.	1.1	0
48	Region-based feature fusion for facial-expression recognition. , 2014, , .		11
49	From quaternion to octonion: Feature-based image saliency detection. , 2014, , .		10
50	Fast super-resolution based on weighted collaborative representation. , 2014, , .		2
51	Cost-sensitive feature selection in medical data analysis with trace ratio criterion. , 2014, , .		2
52	Image classification without segmentation using a hybrid pyramid kernel. Multimedia Tools and Applications, 2014, 73, 1195-1224.	2.6	1
53	Multi-resolution feature fusion for face recognition. Pattern Recognition, 2014, 47, 556-567.	5.1	62
54	Segmentation-enhanced saliency detection model based on distance transform and center bias. , 2014, , .		3

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55	Face hallucination based on sparse local-pixel structure. Pattern Recognition, 2014, 47, 1261-1270.	5.1	67
56	An efficient method for blocky and scratch noise removal. , 2013, , .		0
57	Guided iterative back-projection scheme for single-image super-resolution. , 2013, , .		2
58	A novel face-hallucination scheme based on singular value decomposition. Pattern Recognition, 2013, 46, 3091-3102.	5.1	51
59	FSAM: A fast self-adaptive method for correcting non-uniform illumination for 3D reconstruction. Computers in Industry, 2013, 64, 1229-1236.	5.7	13
60	Depth Estimation of Face Images Using the Nonlinear Least-Squares Model. IEEE Transactions on Image Processing, 2013, 22, 17-30.	6.0	29
61	Multiple-Kernel, Multiple-Instance Similarity Features for Efficient Visual Object Detection. IEEE Transactions on Image Processing, 2013, 22, 3050-3061.	6.0	11
62	Fast Eye Detection and Localization Using a Salient Map. , 2013, , 89-99.		2
63	An efficient two-stage framework for image annotation. Pattern Recognition, 2013, 46, 936-947.	5.1	18
64	Differentiating pancreatic mucinous cystic neoplasms form serous oligocystic adenomas in spectral CT images using machine learning algorithms: A preliminary study. , 2013, , .		0
65	Pseudo-Gabor wavelet for face recognition. Journal of Electronic Imaging, 2013, 22, 023029.	0.5	2
66	Multi-view face hallucination based on sparse representation. , 2013, , .		0
67	A new bottom-up method for saliency detection. , 2013, , .		0
68	Color facial image denoising based on rpca and noisy pixel detection. , 2013, , .		3
69	Face Recognition with Multi-Resolution Spectral Feature Images. PLoS ONE, 2013, 8, e55700.	1.1	10
70	A Mass Spectra-Based Compound-Identification Approach with a Reduced Reference Library. Lecture Notes in Computer Science, 2013, , 672-676.	1.0	0
71	A Novel Ensemble Algorithm for Tumor Classification. Lecture Notes in Computer Science, 2013, , 292-298.	1.0	0
72	Visual sensitivity-based low-bit-rate image compression algorithm. IET Image Processing, 2012, 6, 910.	1.4	8

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73	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.	0.7	68
74	Facial shape and albedo reconstruction based on a trained prototype. , 2012, , .		0
75	An efficient local-structure-based face-hallucination method. , 2012, , .		9
76	Totally-corrective boosting using continuous-valued weak learners. , 2012, , .		0
77	A spectral feature based approach for face recognition with one training sample. , 2012, , .		1
78	Phase-based salient object detection. , 2012, , .		0
79	Eigentransformation-based face super-resolution in the wavelet domain. Pattern Recognition Letters, 2012, 33, 718-727.	2.6	11
80	Feature subset selection for efficient AdaBoost training. , 2011, , .		4
81	From Local Pixel Structure to Global Image Super-Resolution: A New Face Hallucination Framework. IEEE Transactions on Image Processing, 2011, 20, 433-445.	6.0	75
82	Saliency Modulated High Dynamic Range Image Tone Mapping. , 2011, , .		4
83	Depth Estimation of Face Images Based on the Constrained ICA Model. IEEE Transactions on Information Forensics and Security, 2011, 6, 360-370.	4.5	41
84	Video-object segmentation and 3D-trajectory estimation for monocular video sequences. Image and Vision Computing, 2011, 29, 190-205.	2.7	9
85	Gabor-Feature Hallucination based on Generalized Canonical Correlation Analysis for face recognition. , 2011, , .		1
86	Color correction via robust reference selection and recovery using a low-rank matrix model. , 2011, , .		0
87	Efficient rotation- and scale-invariant texture analysis. Journal of Electronic Imaging, 2010, 19, 043005.	0.5	0
88	An image restoration method based on PDEs and a new gradient model. , 2010, , .		1
89	Tone mapping HDR images using optimization: A general framework. , 2010, , .		3
90	Learning local pixel structure for face hallucination. , 2010, , .		3

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91	Canny Edge Detection Using Bilateral Filter on Real Hexagonal Structure. Lecture Notes in Computer Science, 2010, , 233-244.	1.0	1
92	A hierarchical algorithm for image multi-labeling. , 2010, , .		8
93	Image Restoration Based on PDEs and a Non-local Algorithm. Lecture Notes in Computer Science, 2010, , 362-371.	1.0	1
94	Elastic block set reconstruction for face recognition. , 2009, , .		1
95	Partially occluded face completion and recognition. , 2009, , .		4
96	Facial expression recognition based on shape and texture. Pattern Recognition, 2009, 42, 1003-1011.	5.1	55
97	Face detection using simplified Gabor features and hierarchical regions in a cascade of classifiers. Pattern Recognition Letters, 2009, 30, 717-728.	2.6	19
98	Example-based image super-resolution with class-specific predictors. Journal of Visual Communication and Image Representation, 2009, 20, 312-322.	1.7	50
99	Rotation- and scale-invariant texture classification using slide matching of the gabor feature. , 2009, , .		3
100	Rotation-invariant texture analysis using multi-resolution Slit kernels. , 2009, , .		0
101	Efficient Edge Detection Using Simplified Gabor Wavelets. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 1036-1047.	5.5	67
102	Face recognition using elastic local reconstruction based on a single face image. Pattern Recognition, 2008, 41, 406-417.	5.1	24
103	An image magnification algorithm using the GVF constraint model. Journal of Electronics, 2008, 25, 568-571.	0.2	3
104	Simplified Gabor wavelets for human face recognition. Pattern Recognition, 2008, 41, 1186-1199.	5.1	68
105	Image magnification based on a blockwise adaptive Markov random field model. Image and Vision Computing, 2008, 26, 1277-1284.	2.7	12
106	Recovering the 3D shape and poses of face images based on the similarity transform. Pattern Recognition Letters, 2008, 29, 712-723.	2.6	23
107	Efficient face recognition with a large database. , 2008, , .		1
108	Elastic shape-texture matching for human face recognition. Pattern Recognition, 2008, 41, 396-405.	5.1	19

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109	Hybrid learning framework for web information retrieval. , 2008, , .		0
110	Edge detection using simplified Gabor wavelets. , 2008, , .		4
111	Efficient rotation- and scale-invariant texture classification method based on Gabor wavelets. Journal of Electronic Imaging, 2008, 17, 043026.	0.5	13
112	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.	5.6	1
113	A Novel Example-Based Super-Resolution Approach Based on Patch Classification and the KPCA Prior Model. , 2008, , .		3
114	An Effective Shape-Texture Weighted Algorithm for Multi-view Face Tracking in Videos. , 2008, , .		2
115	A novel optical signal monitoring method of DPSK signal based on delay tap sampling and Hausdorff distance measure. , 2008, , .		3
116	Adaptive Alpha-Trimmed Average Operator Based on Gaussian Distribution Hypothesis Test for Image Representation. , 2007, , .		1
117	The GVF Snake with a Minimal Path Approach. , 2007, , .		1
118	Simplified gabor wavelets for efficient feature extraction. , 2007, , .		0
119	An adaptive algorithm for the display of high-dynamic range images. Journal of Visual Communication and Image Representation, 2007, 18, 397-405.	1.7	23
120	AN EFFECTIVE PROMOTER DETECTION METHOD USING THE ADABOOST ALGORITHM. , 2007, , .		2
121	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.	6.0	104
122	A faster converging snake algorithm to locate object boundaries. IEEE Transactions on Image Processing, 2006, 15, 1182-1191.	6.0	37
123	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.	5.6	5
124	An efficient illumination normalization method for face recognition. Pattern Recognition Letters, 2006, 27, 609-617.	2.6	138
125	PromoterExplorer: an effective promoter identification method based on the AdaBoost algorithm. Bioinformatics, 2006, 22, 2722-2728.	1.8	52
126	Efficient color face detection algorithm under different lighting conditions. Journal of Electronic Imaging, 2006, 15, 013015.	0.5	3

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127	An edge-preserved image denoising technique based on iterated function systems. , 2005, 5960, 2023.		0
128	Face recognition based on eigen-illumination scheme and uncorrelated discriminant analysis. , 2005, , .		1
129	An efficient video shot representation for fast video retrieval. , 2005, , .		1
130	An effective dissolve detector using spatio-temporal slice. , 2005, , .		1
131	An efficient method for facial expression recognition. , 2005, , .		0
132	Illumination invariant face recognition. Pattern Recognition, 2005, 38, 1705-1716.	5.1	78
133	An accurate active shape model for facial feature extraction. Pattern Recognition Letters, 2005, 26, 2409-2423.	2.6	65
134	Image magnification based on adaptive MRF model parameter estimation. , 2005, , .		1
135	Kernel PCA with doubly nonlinear mapping for face recognition. , 2005, , .		0
136	A new key frame representation for video segment retrieval. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 1148-1155.	5.6	93
137	Example selective and order independent learning-based image super-resolution. , 2005, , .		2
138	Image Synthesis and Face Recognition Based on 3D Face Model and Illumination Model. Lecture Notes in Computer Science, 2005, , 7-11.	1.0	2
139	Optimal sampling of Gabor features for face recognition. Pattern Recognition Letters, 2004, 25, 267-276.	2.6	91
140	Extraction of the Euclidean skeleton based on a connectivity criterion. Pattern Recognition, 2003, 36, 721-729.	5.1	101
141	Spatially eigen-weighted Hausdorff distances for human face recognition. Pattern Recognition, 2003, 36, 1827-1834.	5.1	65
142	Human face recognition based on spatially weighted Hausdorff distance. Pattern Recognition Letters, 2003, 24, 499-507.	2.6	42
143	A robust scheme for live detection of human faces in color images. Signal Processing: Image Communication, 2003, 18, 103-114.	1.8	67
144	An efficient human face indexing scheme using eigenfaces. , 2003, , .		2

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145	Frequency layered color indexing for content-based image retrieval. IEEE Transactions on Image Processing, 2003, 12, 102-113.	6.0	27
146	A fast fractal image coding based on kick-out and zero contrast conditions. IEEE Transactions on Image Processing, 2003, 12, 1398-1403.	6.0	43
147	Sampling Gabor features for face recognition. , 2003, , .		1
148	Fast fractal-image compression using feature vector matching. , 2002, , .		0
149	Improved searching scheme for fractal image coding. Electronics Letters, 2002, 38, 1653.	0.5	27
150	An efficient algorithm for the extraction of a Euclidean skeleton. , 2002, , .		4
151	Automatic Human Face Recognition System Using Fractal Dimension and Modified Hausdorff Distance. Lecture Notes in Computer Science, 2001, , 277-284.	1.0	1
152	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.	5.6	35
153	An efficient algorithm for human face detection and facial feature extraction under different conditions. Pattern Recognition, 2001, 34, 1993-2004.	5.1	124
154	An adaptive active contour model for highly irregular boundaries. Pattern Recognition, 2001, 34, 323-331.	5.1	56
155	Locating the eye in human face images using fractal dimensions. IET Computer Vision, 2001, 148, 413.	1.3	41
156	Human Face Image Recognition: An Evidence Aggregation Approach. Computer Vision and Image Understanding, 1998, 71, 213-230.	3.0	31
157	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.	9.7	194
158	An adaptive deformable template for mouth boundary modeling. Lecture Notes in Computer Science, 1997, , 559-566.	1.0	0
159	Locating and extracting the eye in human face images. Pattern Recognition, 1996, 29, 771-779.	5.1	273
160	Generation of moment invariants and their uses for character recognition. Pattern Recognition Letters, 1995, 16, 115-123.	2.6	64
161	Computing the inverse DFT with the in-place, in-order prime factor FFT algorithm. IEEE Transactions on Signal Processing, 1995, 43, 2193-2194.	3.2	6
162	Fast algorithm for locating head boundaries. Journal of Electronic Imaging, 1994, 3, 351.	0.5	41

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163	Transform-based fine-coarse vector quantization. , 0, , .		0
164	Automatic generation of moment invariants and the use of higher order moments for character recognition. , 0, , .		0
165	Locating head boundary by snakes. , 0, , .		19
166	An efficient approach for facial feature detection. , 0, , .		1
167	A reliable approach for human face detection using genetic algorithm. , 0, , .		7
168	An efficient and accurate algorithm for extracting a skeleton. , 0, , .		3
169	Face segmentation and facial feature tracking for videophone applications. , 0, , .		5
170	Locating the human eye using fractal dimensions. , 0, , .		0
171	Human face recognition using a spatially weighted modified Hausdorff distance. , 0, , .		11
172	A robust algorithm for detection of human faces in color images. , 0, , .		1
173	Hybrid Chinese/English text detection in images and video frames. , 0, , .		23
174	A new approach using modified Hausdorff distances with eigenface for human face recognition. , 0, , .		3
175	An efficient color compensation scheme for skin color segmentation. , 0, , .		4
176	Maximal disk based histogram for shape retrieval. , 0, , .		4
177	An efficient algorithm for fractal image coding using kick-out and zero contrast conditions. , 0, , .		2
178	Scene cut detection using the colored pattern appearance model. , 0, , .		9
179	An efficient fractal-based algorithm for image magnification. , 0, , .		3
180	Embedded human face image coding with set partitioning in hierarchical trees. , 0, , .		0

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181	Efficient human face recognition based on shape and texture. , 0, , .		1
182	An efficient illumination compensation scheme for face recognition. , 0, , .		3
183	Adaptive forward error correction for streaming stored mpeg-4 FGS video over wireless channel. , 0, , .		4
184	An optimal key frame representation for video shot retrieval. , 0, , .		1
185	An accurate active shape model for facial feature extraction. , 0, , .		1
186	Mean-shift based mixture model for face detection in color image. , 0, , .		2
187	A New Cubic Rate Distortion Model for Low-Delay Video Communication. , 0, , .		0
188	An Efficient Method for Face Recognition under Varying Illumination. , 0, , .		8
189	Elastic Local Reconstruction for Human Face Recognition. , 0, , .		0