

Lai-Man Po

List of Publications by Year in descending order

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140
papers

4,072
citations

304368

22
h-index

168136

53
g-index

141
all docs

141
docs citations

141
times ranked

1964
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel four-step search algorithm for fast block motion estimation. IEEE Transactions on Circuits and Systems for Video Technology, 1996, 6, 313-317.	5.6	1,216
2	A novel cross-diamond search algorithm for fast block motion estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2002, 12, 1168-1177.	5.6	303
3	Integration of image quality and motion cues for face anti-spoofing: A neural network approach. Journal of Visual Communication and Image Representation, 2016, 38, 451-460.	1.7	192
4	Normalized partial distortion search algorithm for block motion estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2000, 10, 417-422.	5.6	147
5	Novel cross-diamond-hexagonal search algorithms for fast block motion estimation. IEEE Transactions on Multimedia, 2005, 7, 16-22.	5.2	142
6	Enhanced Hexagonal Search for Fast Block Motion Estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 1210-1214.	5.6	140
7	Motion-Resistant Remote Imaging Photoplethysmography Based on the Optical Properties of Skin. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 879-891.	5.6	135
8	No-Reference Video Quality Assessment With 3D Shearlet Transform and Convolutional Neural Networks. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 1044-1057.	5.6	101
9	Cuffless Blood Pressure Estimation Based on Photoplethysmography Signal and Its Second Derivative. International Journal of Computer Theory and Engineering, 2017, 9, 202-206.	3.2	100
10	No-reference image quality assessment with shearlet transform and deep neural networks. Neurocomputing, 2015, 154, 94-109.	3.5	83
11	LiveNet: Improving features generalization for face liveness detection using convolution neural networks. Expert Systems With Applications, 2018, 108, 159-169.	4.4	77
12	Adaptive motion tracking block matching algorithms for video coding. IEEE Transactions on Circuits and Systems for Video Technology, 1999, 9, 1025-1029.	5.6	72
13	Adjustable partial distortion search algorithm for fast block motion estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2003, 13, 100-110.	5.6	69
14	Novel Directional Gradient Descent Searches for Fast Block Motion Estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1189-1195.	5.6	52
15	Fast Bit Rate Estimation for Mode Decision of H.264/AVC. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 1402-1407.	5.6	47
16	No-reference image quality assessment with deep convolutional neural networks. , 2016, , .		47
17	A fast H.264 intra prediction algorithm using macroblock properties. , 0, , .		40
18	A Novel Patch Variance Biased Convolutional Neural Network for No-Reference Image Quality Assessment. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1223-1229.	5.6	40

#	ARTICLE	IF	CITATIONS
19	SCGAN: Saliency Map-Guided Colorization With Generative Adversarial Network. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 3062-3077.	5.6	35
20	Transform-Domain Fast Sum of the Squared Difference Computation for H.264/AVC Rate-Distortion Optimization. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 765-773.	5.6	33
21	Novel Point-Oriented Inner Searches for Fast Block Motion Estimation. IEEE Transactions on Multimedia, 2007, 9, 9-15.	5.2	30
22	Minimax partial distortion competitive learning for optimal codebook design. IEEE Transactions on Image Processing, 1998, 7, 1400-1409.	6.0	29
23	A new multidirectional extrapolation hole-filling method for Depth-Image-Based Rendering. , 2011, , .		29
24	Center-biased frame selection algorithms for fast multi-frame motion estimation in H.264. , 2003, , .		27
25	Improved Inter Prediction based on Structural Similarity in H.264. , 2007, , .		26
26	A Search Patterns Switching Algorithm for Block Motion Estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 753-759.	5.6	26
27	Block-based adaptive ROI for remote photoplethysmography. Multimedia Tools and Applications, 2018, 77, 6503-6529.	2.6	26
28	A new cross-diamond search algorithm for fast block matching motion estimation. , 2003, , .		25
29	A novel kite-cross-diamond search algorithm for fast block matching motion estimation. , 0, , .		25
30	MIRROR: An Interactive Content Based Image Retrieval System. , 0, , .		24
31	SLNet: Stereo face liveness detection via dynamic disparity-maps and convolutional neural network. Expert Systems With Applications, 2020, 142, 113002.	4.4	24
32	Fast sum of absolute transformed difference based 4 \tilde{A} —4 intra-mode decision of H.264/AVC video coding standard. Signal Processing: Image Communication, 2008, 23, 571-580.	1.8	22
33	A complexity reduction technique for image vector quantization. IEEE Transactions on Image Processing, 1992, 1, 312-321.	6.0	21
34	No-reference image quality assessment using statistical characterization in the shearlet domain. Signal Processing: Image Communication, 2014, 29, 748-759.	1.8	21
35	Dominant Color Structure Descriptor for Image Retrieval. , 2007, , .		20
36	An SSIM-optimal H.264/AVC inter frame encoder. , 2009, , .		20

#	ARTICLE	IF	CITATIONS
37	A hierarchical block motion estimation algorithm using partial distortion measure. , 0, , .		19
38	A novel small-cross-diamond search algorithm for fast video coding and videoconferencing applications. , 0, , .		19
39	Dynamic ROI based on K-means for remote photoplethysmography. , 2015, , .		19
40	Motion artifacts suppression for remote imaging photoplethysmography. , 2014, , .		18
41	Face liveness detection using convolutional-features fusion of real and deep network generated face images. Journal of Visual Communication and Image Representation, 2019, 59, 574-582.	1.7	18
42	Subsampled Block-Matching for Zoom Motion Compensated Prediction. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1625-1637.	5.6	17
43	Depth map misalignment correction and dilation for DIBR view synthesis. Signal Processing: Image Communication, 2013, 28, 1023-1045.	1.8	17
44	A new center-biased search algorithm for block motion estimation. , 0, , .		16
45	Discrete wavelet transform-based structural similarity for image quality assessment. , 2008, , .		16
46	A foreground biased depth map refinement method for DIBR view synthesis. , 2012, , .		15
47	Deep learning for face anti-spoofing: An end-to-end approach. , 2017, , .		14
48	Data-level information enhancement: Motion-patch-based Siamese Convolutional Neural Networks for human activity recognition in videos. Expert Systems With Applications, 2020, 147, 113203.	4.4	14
49	Fusion loss and inter-class data augmentation for deep finger vein feature learning. Expert Systems With Applications, 2021, 171, 114584.	4.4	14
50	Dominant color image retrieval using merged histogram. , 0, , .		12
51	A new palette histogram similarity measure for mpeg-7 dominant color descriptor. , 0, , .		12
52	Automatic 2D-to-3D video conversion technique based on depth-from-motion and color segmentation. , 2010, , .		12
53	A novel watermarking scheme with compensation in bit-stream domain for H.264/AVC. , 2010, , .		12
54	Adaptive dimensionality reduction techniques for tree-S tructured vector quantization. IEEE Transactions on Communications, 1994, 42, 2246-2257.	4.9	11

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55	A Compact and Efficient Color Descriptor for Image Retrieval. , 2007, , .		11
56	Face liveness detection and recognition using shearlet based feature descriptors. , 2016, , .		11
57	Angular Deep Supervised Hashing for Image Retrieval. IEEE Access, 2019, 7, 127521-127532.	2.6	11
58	Enhancing deep discriminative feature maps via perturbation for face presentation attack detection. Image and Vision Computing, 2020, 94, 103858.	2.7	11
59	Merged-color histogram for color image retrieval. , 0, , .		10
60	Fast block-matching motion estimation by recent-biased search for multiple reference frames. , 0, , .		10
61	A novel weighted cross prediction for H.264 intra coding. , 2009, , .		10
62	Frame adaptive ROI for photoplethysmography signal extraction from fingertip video captured by smartphone. , 2015, , .		10
63	Light field-based face liveness detection with convolutional neural networks. Journal of Electronic Imaging, 2019, 28, 1.	0.5	10
64	Block address predictive colour quantisation image compression. Electronics Letters, 1994, 30, 120-121.	0.5	9
65	Adaptive depth truncation filter for MVC based compressed depth image. Signal Processing: Image Communication, 2014, 29, 316-331.	1.8	9
66	Edge-Sensitive Left Ventricle Segmentation Using Deep Reinforcement Learning. Sensors, 2021, 21, 2375.	2.1	9
67	Variable tree size fractal compression for wavelet pyramid image coding. Signal Processing: Image Communication, 1999, 14, 195-208.	1.8	8
68	A novel ordered-SPIHT for embedded color image coding. , 2003, , .		8
69	Depth-aided exemplar-based hole filling for DIBR view synthesis. , 2013, , .		8
70	An improved hybrid fast mode decision method for H.264/AVC intra coding with local information. Multimedia Tools and Applications, 2014, 72, 687-704.	2.6	8
71	MPEG-7 dominant color descriptor based relevance feedback using merged palette histogram. , 0, , .		7
72	Search Patterns Switching for Motion Estimation using Rate of Error Descent. , 2007, , .		7

#	ARTICLE	IF	CITATIONS
73	Bit Rate Estimation for Cost Function of 4?4 Intra Mode Decision of H.264/AVC. , 2007, , .		7
74	LinCos-Softmax: Learning Angle-Discriminative Face Representations With Linearity-Enhanced Cosine Logits. IEEE Access, 2020, 8, 109758-109769.	2.6	7
75	Multiple block-size search algorithm for fast block motion estimation. , 2009, , .		6
76	Long-Range Dependencies and High-Order Spatial Pooling for Deep Model-Based Full-Reference Image Quality Assessment. IEEE Access, 2020, 8, 72007-72020.	2.6	6
77	Integer multiwavelet transform for lossless image coding. , 0, , .		5
78	A fast block motion estimation using progressive partial distortion search. , 0, , .		5
79	Fast Block Motion Estimation with Early Acceptance Technique in H.264/JVT. , 0, , .		5
80	Preprocessing for discrete multiwavelet transform of two-dimensional signals. , 0, , .		4
81	A hierarchical block matching algorithm using partial distortion measure. , 0, , .		4
82	A novel multiwavelet-based integer transform for lossless image coding. , 0, , .		4
83	A novel rood-diamond search algorithm for fast block motion estimation. , 2002, , .		4
84	The training of Karhunenâ€™LoÃƒve transform matrix and its application for H.264 intra coding. Multimedia Tools and Applications, 2009, 41, 111-123.	2.6	4
85	Watershed and Random Walks based depth estimation for semi-automatic 2D to 3D image conversion. , 2012, , .		4
86	Watershed based depth map misalignment correction and foreground biased dilation for DIBR view synthesis. , 2013, , .		4
87	An adaptive background biased depth map hole-filling method for Kinect. , 2013, , .		4
88	Adaptive block truncation filter for MVC depth image enhancement. , 2014, , .		4
89	Video copy detection by conducting fast searching of inverted files. Multimedia Tools and Applications, 2019, 78, 10601-10624.	2.6	4
90	FEANet: Foreground-edge-aware network with DenseASPOC for human parsing. Image and Vision Computing, 2021, 109, 104145.	2.7	4

#	ARTICLE	IF	CITATIONS
91	A novel kite-cross-diamond search algorithm for fast video coding and videoconferencing applications. , 0, , .		3
92	A New Partial Codeword Updating Scheme Based on Rate-Distortion Optimization for Adaptive Vector Quantization. , 2007, , .		3
93	Compensated sum of absolute difference for fast H.264 inter mode selection. , 2008, , .		3
94	Block-Matching Translational and Rotational Motion Compensated Prediction Using Interpolated Reference Frame. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	3
95	A Linear Prediction Based Fractional-Pixel Motion Estimation Algorithm. , 2010, , .		3
96	A new motion compensation method using superimposed inter-frame signals. , 2012, , .		3
97	Angular Deep Supervised Vector Quantization for Image Retrieval. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1638-1649.	7.2	3
98	Deep triplet residual quantization. Expert Systems With Applications, 2021, 184, 115467.	4.4	3
99	A new center-biased orthogonal search algorithm for fast block motion estimation. , 0, , .		2
100	Text-driven automatic frame generation using MPEG-4 synthetic/natural hybrid coding for 2-D head-and-shoulder scene. , 0, , .		2
101	Hybrid search algorithm for block motion estimation. , 0, , .		2
102	Web-based Beowulf-Class parallel computing on image database indexing and retrieval system. , 0, , .		2
103	Multi-direction search algorithm for block-based motion estimation. , 2008, , .		2
104	Block-Matching Translation And Zoom Motion-Compensated Prediction by sub-sampling. , 2009, , .		2
105	Six-digit stroke-based Chinese input method. , 2009, , .		2
106	Distance-based weighted prediction for Adaptive Intra Mode Bit Skip in H.264/AVC. , 2010, , .		2
107	Horizontal Scaling and Shearing-Based Disparity-Compensated Prediction for Stereo Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 1457-1470.	5.6	2
108	A novel inverted index file based searching strategy for video copy detection. , 2017, , .		2

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109	ASNet: Auto-Augmented Siamese Neural Network for Action Recognition. Sensors, 2021, 21, 4720.	2.1	2
110	Low complexity 2D preprocessing for discrete multiwavelet transform of image signals. Electronics Letters, 1997, 33, 1037.	0.5	2
111	GAN-Based Inter-Class Sample Generation for Contrastive Learning of Vein Image Representations. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2022, 4, 249-262.	3.8	2
112	A novel histogram-biasing factor for fast sorted histogram-based measurement in large image database retrieval system. , 0, , .		1
113	Text-driven automatic image sequence generation using facial modeling for digital TV news production system. , 0, , .		1
114	Generalized partial distortion search algorithm for fast block motion estimation. , 0, , .		1
115	Lossless wavelet image coding using layered coefficient partitioning. , 0, , .		1
116	MPEG-7 dominant color descriptor using merged palette histogram similarity measure. , 0, , .		1
117	A novel early-accepted partial distortion algorithm for fast block motion estimation. , 0, , .		1
118	Point Oriented Hexagonal Inner Search For Fast Block Motion Estimation. , 2006, , .		1
119	Variable reconstruction scheme for distributed video decoding. , 2008, , .		1
120	Enterprise Bankruptcy Prediction Using Noisy-Tolerant Support Vector Machine. , 2008, , .		1
121	Complexity reduced mode selection of H.264/AVC intra coding. , 2008, , .		1
122	Stretching, compression and shearing disparity compensated prediction techniques for stereo and multiview video coding. , 2011, , .		1
123	No-reference image quality assessment using shearlet transform and stacked autoencoders. , 2015, , .		1
124	Lossless wavelet coder with adaptive orientational prediction. , 0, , .		0
125	Low complexity preprocessing for 2D discrete multiwavelet transform. , 0, , .		0
126	Low bit-rate video coding using 2-D adaptive sampling motion compensation. , 0, , .		0

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127	Successive partition zero coder for embedded lossless wavelet-based image coding. , 0, , .		0
128	Embedded lossless wavelet coder using multipartitioning algorithm with bit-trunking. , 0, , .		0
129	A lossless multi-partitioning successive zero coder for wavelet-based progressive image transmission. , 1999, , .		0
130	Generalized partial distortion search algorithm for block-matching motion estimation. , 0, , .		0
131	A novel block motion estimation algorithm with controllable quality and searching speed. , 0, , .		0
132	Spatial coefficient partitioning for lossless wavelet image coding. , 2002, , .		0
133	Block-Matching Translation and Zoom Motion-Compensated Prediction. , 2009, , .		0
134	Enhanced SAITD Cost Function for H.264/AVC Intra 4×4 Mode Decision. , 2010, , .		0
135	Adaptive Quantization in DCT Domain for Distributed Video Coding. , 2011, , .		0
136	Enhanced adaptive intra mode bit skip for H.264/AVC. , 2012, , .		0
137	Radical-stroke-based Chinese input method using dynamic radical keypad on touchscreen smartphones. HKIE Transactions, 2013, 20, 188-193.	1.9	0
138	An adaptive motion compensation method using superimposed inter-frame signals. Journal of Real-Time Image Processing, 2016, 11, 487-506.	2.2	0
139	Pixel Voting Decoder: A novel decoder that regresses pixel relationships for segmentation. Expert Systems With Applications, 2022, 193, 116438.	4.4	0
140	ShaTure: Shape and Texture Deformation for Human Pose and Attribute Transfer. IEEE Transactions on Image Processing, 2022, 31, 2541-2556.	6.0	0