

Lap-Pui Chau

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

126 papers	2,027 citations	20 h-index	40 g-index
184 ext. papers	2,634 ext. citations	4.6 avg, IF	5.33 L-index

#	Paper	IF	Citations
126	Convolutional Neural Networks With Dynamic Regularization. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 2299-2304	10.3	5
125	A Self-Training Approach for Point-Supervised Object Detection and Counting in Crowds. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 2876-2887	8.7	18
124	Deep Spatial-angular Regularization for Light Field Imaging, Denoising, and Super-resolution. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	5
123	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-13	6.1	2
122	Deep Spatial-Angular Regularization for Compressive Light Field Reconstruction over Coded Apertures. <i>Lecture Notes in Computer Science</i> , 2020 , 278-294	0.9	11
121	Remote detection of idling cars using infrared imaging and deep networks. <i>Neural Computing and Applications</i> , 2020 , 32, 3047-3057	4.8	2
120	Convolutional Three-Stream Network Fusion for Driver Fatigue Detection from Infrared Videos 2019 ,		2
119	Object Counting in Video Surveillance Using Multi-scale Density Map Regression 2019 ,		2
118	2019 ,		3
117	Vehicle Tracking Using Deep SORT with Low Confidence Track Filtering 2019 ,		22
116	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 517-530	6.4	36
115	Deepsea video descattering. <i>Multimedia Tools and Applications</i> , 2019 , 78, 28919-28929	2.5	2
114	Simultaneous Spatial and Spectral Low-Rank Representation of Hyperspectral Images for Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 2872-2886	8.1	30
113	Single Underwater Image Restoration Using Adaptive Attenuation-Curve Prior. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 992-1002	3.9	50
112	. <i>IEEE Transactions on Multimedia</i> , 2018 , 20, 1656-1671	6.6	14
111	Light Field Compression With Disparity-Guided Sparse Coding Based on Structural Key Views. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 314-324	8.7	44
110	Reflection Removal on Single Light Field Capture Using Focus Manipulation. <i>IEEE Transactions on Computational Imaging</i> , 2018 , 4, 562-572	4.5	7

109	Idling Car Detection with ConvNets in Infrared Image Sequences 2018 ,		2
108	Robust Video Content Alignment and Compensation for Rain Removal in a CNN Framework 2018 ,		70
107	Light Field Denoising via Anisotropic Parallax Analysis in a CNN Framework. <i>IEEE Signal Processing Letters</i> , 2018 , 25, 1403-1407	3.2	25
106	Accurate Light Field Depth Estimation With Superpixel Regularization Over Partially Occluded Regions. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 4889-4900	8.7	53
105	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2017 , 27, 1043-1054	6.4	22
104	Light Field Compressed Sensing Over a Disparity-Aware Dictionary. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2017 , 27, 855-865	6.4	13
103	Lattice-Support repetitive local feature detection for visual search. <i>Pattern Recognition Letters</i> , 2017 , 98, 123-129	4.7	
102	2017 ,		15
101	Edge-preserving rain removal for light field images based on RPCA 2017 ,		3
100	Reflection removal based on single light field capture 2017 ,		11
99	Depth video-based two-stream convolutional neural networks for driver fatigue detection 2017 ,		9
98	Single underwater image restoration using attenuation-curve prior 2017 ,		6
97	Facial Position and Expression-Based Human-Computer Interface for Persons With Tetraplegia. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 915-924	7.2	19
96	Robust laplacian matrix learning for smooth graph signals 2016 ,		3
95	Sparse two-dimensional singular value decomposition 2016 ,		1
94	Light field depth from multi-scale particle filtering 2016 ,		1
93	Underwater image restoration based on contrast enhancement 2016 ,		12
92	Graph-based transform for data decorrelation 2016 ,		5

91	2016,			1
90	Low-latency compression of mocap data using learned spatial decorrelation transform. <i>Computer Aided Geometric Design</i> , 2016 , 43, 211-225	1.2		7
89	Compressing 3-D Human Motions via Keyframe-Based Geometry Videos. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2015 , 25, 51-62	6.4		19
88	Motion capture data recovery using skeleton constrained singular value thresholding. <i>Visual Computer</i> , 2015 , 31, 1521-1532	2.3		10
87	Human Motion Capture Data Tailored Transform Coding. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2015 , 21, 848-59	4		22
86	Fall detection based on body part tracking using a depth camera. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 430-9	7.2		150
85	Reordering-based transform for compressing human motion capture data 2015 ,			1
84	Underwater image color correction based on surface reflectance statistics 2015 ,			1
83	Multiscale Dictionary Learning via Cross-Scale Cooperative Learning and Atom Clustering for Visual Signal Processing. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2015 , 25, 1457-1468	6.4		4
82	A rain pixel recovery algorithm for videos with highly dynamic scenes. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 1097-104	8.7		44
81	Restoring corrupted motion capture data via jointly low-rank matrix completion 2014 ,			4
80	Scalable and Compact Representation for Motion Capture Data Using Tensor Decomposition. <i>IEEE Signal Processing Letters</i> , 2014 , 21, 255-259	3.2		13
79	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2014 , 24, 1541-1553	6.4		19
78	Dynamic scene rain removal for moving cameras 2014 ,			4
77	Single Viewpoint Image-Driven Simplification. <i>International Journal of Image and Graphics</i> , 2014 , 14, 1450-1458			008
76	Human Computer Interface for Quadriplegic People Based on Face Position/gesture Detection 2014 ,			2
75	Low-rank based compact representation of motion capture data 2014 ,			3
74	A novel compression framework for 3D time-varying meshes 2014 ,			4

73	Low Power Motion Estimation Based on Probabilistic Computing. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2014 , 24, 1-14	6.4	1
72	Rate-Distortion Model Based Bit Allocation for 3-D Facial Compression Using Geometry Video. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2013 , 23, 1537-1541	6.4	6
71	Joint Rate Allocation of Stereoscopic 3D Videos in Next-Generation Broadcast Applications. <i>IEEE Transactions on Broadcasting</i> , 2013 , 59, 445-454	4.7	5
70	Human motion capture data recovery via trajectory-based sparse representation 2013 ,		9
69	Human motion capture data recovery using trajectory-based matrix completion. <i>Electronics Letters</i> , 2013 , 49, 752-754	1.1	18
68	An enhanced window-variant dark channel prior for depth estimation using single foggy image 2013 ,		3
67	Expression-invariant and sparse representation for mesh-based compression for 3-D face models 2013 ,		1
66	Consistent Video Quality Control in Scalable Video Coding Using Dependent Distortion Quantization Model. <i>IEEE Transactions on Broadcasting</i> , 2013 , 59, 717-724	4.7	9
65	Fall detection based on skeleton extraction 2012 ,		12
64	Joint Rate Allocation for Statistical Multiplexing in Video Broadcast Applications. <i>IEEE Transactions on Broadcasting</i> , 2012 , 58, 417-427	4.7	8
63	Dynamic 3-D facial compression using low rank and sparse decomposition 2012 ,		4
62	Keyframe selection for motion capture using motion activity analysis 2012 ,		5
61	Joint rate allocation for statistical multiplexing of SVC 2012 ,		2
60	A New Rate-Quantization Model for H.264/AVC Low-Delay Rate Control. <i>Lecture Notes in Computer Science</i> , 2012 , 492-500	0.9	2
59	. <i>IEEE Transactions on Multimedia</i> , 2011 , 13, 40-49	6.6	11
58	From universal bag-of-words to adaptive bag-of-phrases for mobile scene recognition 2011 ,		9
57	Spectral Geometry Image: Image Based 3D Models for Digital Broadcasting Applications. <i>IEEE Transactions on Broadcasting</i> , 2011 , 57, 636-645	4.7	7
56	Integrated Content and Context Analysis for Mobile Landmark Recognition. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 1476-1486	6.4	19

55	Low Power Motion Estimation with Probabilistic Computing 2011 ,	2
54	Image based approach with k-mean clustering for the compression of human motion sequences 2011 ,	1
53	Synchronized partial-body motion graphs 2010 ,	2
52	Joint Rate Allocation for Multiprogram Video Coding Using FGS. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2010 , 20, 829-837	6.4 11
51	Bit-Rate Allocation for Broadcasting of Scalable Video Over Wireless Networks. <i>IEEE Transactions on Broadcasting</i> , 2010 , 56, 288-295	4.7 12
50	Adaptive resynchronization approach for scalable video over wireless channel. <i>Journal of Visual Communication and Image Representation</i> , 2010 , 21, 210-218	2.7
49	Efficient inter mode decision for H.263 to H.264 video transcoding using support vector machines 2009 ,	1
48	A multi-scale learning approach for landmark recognition using mobile devices 2009 ,	6
47	Streaming 3D meshes using spectral geometry images 2009 ,	4
46	A soft MAP framework for blind super-resolution image reconstruction. <i>Image and Vision Computing</i> , 2009 , 27, 364-373	3.7 53
45	A Nonlinear $L_{1/2}$ -Norm Approach for Joint Image Registration and Super-Resolution. <i>IEEE Signal Processing Letters</i> , 2009 , 16, 981-984	3.2 12
44	A Novel Hybrid Model Framework to Blind Color Image Deconvolution. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2008 , 38, 867-880	8
43	A new color image regularization scheme for blind image deconvolution. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6 1
42	Frame Complexity-Based Rate-Quantization Model for H.264/AVC Intraframe Rate Control. <i>IEEE Signal Processing Letters</i> , 2008 , 15, 373-376	3.2 47
41	. <i>IEEE Transactions on Multimedia</i> , 2008 , 10, 97-104	6.6 7
40	Fast intra mode decision algorithm for H.263 to H.264/AVC transcoding 2008 ,	1
39	A nonlinear least square technique for simultaneous image registration and super-resolution. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 2830-41	8.7 62
38	Improved Frame Level MAD Prediction and Bit Allocation Scheme for H.264/AVC Rate Control 2007 ,	2

37	Partial Distortion Search Algorithm Using Predictive Search Area for Fast Full-Search Motion Estimation. <i>IEEE Signal Processing Letters</i> , 2007 , 14, 840-843	3.2	8
36	Joint Image Registration and Super-Resolution using Nonlinear Least Squares Method 2007 ,		4
35	. <i>IEEE Transactions on Multimedia</i> , 2007 , 9, 37-45	6.6	19
34	A Resizing Algorithm With Two-Stage Realization for DCT-Based Transcoding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2007 , 17, 248-253	6.4	7
33	Error-resilient coding of H.264 based on periodic macroblock. <i>IEEE Transactions on Broadcasting</i> , 2006 , 52, 223-229	4.7	13
32	The realization of arbitrary downsizing video transcoding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2006 , 16, 540-546	6.4	10
31	GOP-based channel rate allocation using genetic algorithm for scalable video streaming over error-prone networks. <i>IEEE Transactions on Image Processing</i> , 2006 , 15, 1323-30	8.7	52
30	Region-Based Image Retrieval using Radial Basis Function Network 2006 ,		5
29	Blind Super-Resolution Image Reconstruction using a Maximum a Posteriori Estimation 2006 ,		9
28	. <i>IEEE Transactions on Multimedia</i> , 2005 , 7, 507-513	6.6	29
27	. <i>IEEE Transactions on Multimedia</i> , 2005 , 7, 1131-1138	6.6	8
26	Efficient fine granularity scalability using adaptive leaky factor. <i>IEEE Transactions on Broadcasting</i> , 2005 , 51, 512-519	4.7	1
25	. <i>IEEE Transactions on Multimedia</i> , 2005 , 7, 1021-1027	6.6	2
24	Content-based resynchronization for robust video transmission. <i>IEEE Transactions on Broadcasting</i> , 2004 , 50, 390-395	4.7	0
23	Efficient inner search for faster diamond search. <i>Signal Processing</i> , 2004 , 84, 527-533	4.4	0
22	An efficient arbitrary downsizing algorithm for video transcoding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2004 , 14, 887-891	6.4	22
21	A motion vector recovery algorithm for digital video using Lagrange interpolation. <i>IEEE Transactions on Broadcasting</i> , 2003 , 49, 383-389	4.7	42
20	A fast octagon-based search algorithm for motion estimation. <i>Signal Processing</i> , 2003 , 83, 671-675	4.4	16

19	Smooth constrained motion estimation for video coding. <i>Signal Processing</i> , 2003 , 83, 677-680	4.4	14
18	Efficient multiplier structure for realization of the discrete cosine transform. <i>Signal Processing: Image Communication</i> , 2003 , 18, 527-536	2.8	3
17	Hexagon-based search pattern for fast block motion estimation. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2002 , 12, 349-355	6.4	45 ^o
16	Arbitrary downsizing video transcoding using fast motion vector reestimation. <i>IEEE Signal Processing Letters</i> , 2002 , 9, 352-355	3.2	18
15	Efficient prime factor algorithm and address generation techniques for the discrete cosine transform. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2001 , 48, 985-988		1
14	Efficient recursive algorithm for the inverse discrete cosine transform. <i>IEEE Signal Processing Letters</i> , 2000 , 7, 276-277	3.2	8
13	Transform domain recursive algorithm to compute discrete cosine and sine transforms. <i>International Journal of Electronics</i> , 1996 , 80, 433-439	1.2	1
12	Concurrent computation of two-dimensional discrete cosine transform. <i>Circuits, Systems, and Signal Processing</i> , 1996 , 15, 597-607	2.2	0
11	. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 1995 , 42, 50-52		12
10	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 1994 , 4, 550-552	6.4	20
9	Two-dimensional channel rate allocation for SVC over error-prone channel		1
8	A novel intra-rate estimation method for H.264 rate control		5
7	Efficient three-step search algorithm for block motion estimation in video coding		4
6	An efficient inter mode decision approach for H.264 video coding		3
5	A novel unequal error protection approach for error resilient video transmission		13
4	Multiple description coding using multiple reference frame for robust video transmission		2
3	A novel hexagon-based search algorithm for fast block motion estimation		9
2			4

1	Recursive algorithm for the realization of the discrete cosine transform	1
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