

Wan-Chi Siu

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.

118
papers

1,177
citations

17
h-index

29
g-index

193
ext. papers

1,532
ext. citations

4.6
avg, IF

5.05
L-index

#	Paper	IF	Citations
118	Variational AutoEncoder for Reference based Image Super-Resolution 2021 ,		1
117	Fast Monocular Visual Place Recognition for Non-Uniform Vehicle Speed and Varying Lighting Environment. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 1679-1696	6.1	2
116	Photo-Realistic Image Super-Resolution via Variational Autoencoders. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 31, 1351-1365	6.4	11
115	Features Guided Face Super-Resolution via Hybrid Model of Deep Learning and Random Forests. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 4157-4170	8.7	4
114	Efficient Video Super-Resolution via Hierarchical Temporal Residual Networks. <i>IEEE Access</i> , 2021 , 9, 106049-106064	3.9	1
113	DeepGIN: Deep Generative Inpainting Network for Extreme Image Inpainting. <i>Lecture Notes in Computer Science</i> , 2020 , 5-22	0.9	3
112	Deep Relighting Networks for Image Light Source Manipulation. <i>Lecture Notes in Computer Science</i> , 2020 , 550-567	0.9	6
111	Lightening Network for Low-Light Image Enhancement. <i>IEEE Transactions on Image Processing</i> , 2020 , 29, 7984-7996	8.7	29
110	Unsupervised Real Image Super-Resolution via Generative Variational AutoEncoder 2020 ,		8
109	Machine Learning-Based Fast Intra Mode Decision for HEVC Screen Content Coding via Decision Trees. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020 , 30, 1481-1496	6.4	20
108	Online-Learning-Based Bayesian Decision Rule for Fast Intra Mode and CU Partitioning Algorithm in HEVC Screen Content Coding. <i>IEEE Transactions on Image Processing</i> , 2020 , 29, 170-185	8.7	22
107	. <i>IEEE Transactions on Multimedia</i> , 2019 , 21, 269-283	6.6	23
106	DeepSCC: Deep Learning-Based Fast Prediction Network for Screen Content Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 1-1	6.4	6
105	Reference Based Face Super-Resolution. <i>IEEE Access</i> , 2019 , 7, 129112-129126	3.5	8
104	Vision-based Place Recognition Using ConvNet Features and Temporal Correlation Between Consecutive Frames 2019 ,		1
103	Image Super-Resolution via Attention Based Back Projection Networks 2019 ,		25
102	Hierarchical Back Projection Network for Image Super-Resolution 2019 ,		15

101	Fast intraprediction for high-efficiency video coding screen content coding by content analysis and dynamic thresholding. <i>Journal of Electronic Imaging</i> , 2018 , 27, 1	0.7	6
100	Joint Back Projection and Residual Networks for Efficient Image Super-Resolution 2018 ,		2
99	Fast Monocular Vision-based Railway Localization for Situations with Varying Speeds 2018 ,		2
98	Fast HEVC to SCC Transcoding Based on Decision Trees 2018 ,		2
97	Cascaded Random Forests for Fast Image Super-Resolution 2018 ,		7
96	Learning Hierarchical Decision Trees for Single-Image Super-Resolution. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2017 , 27, 937-950	6.4	37
95	Image super-resolution via weighted random forest 2017 ,		11
94	Fast image super-resolution via Randomized Multi-split Forests 2017 ,		10
93	Learning via Decision Trees Approach for Video Super-Resolution 2017 ,		1
92	Adaptive Search Range for HEVC Motion Estimation Based on Depth Information. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2017 , 27, 2216-2230	6.4	17
91	Early merge mode decision for depth maps in 3D-HEVC 2017 ,		2
90	Vehicle detection under tough conditions using prioritized feature extraction with shadow recognition 2017 ,		4
89	Fast mode decision algorithm for HEVC screen content intra coding 2017 ,		13
88	Decoder side merge mode and AMVP in HEVC screen content coding 2017 ,		6
87	Design of variable bandwidth symmetric/anti-symmetric FIR single-band PCLS lowpass and highpass filters. <i>Signal, Image and Video Processing</i> , 2016 , 10, 37-43	1.6	2
86	Efficient wedgelet pattern decision for depth modeling modes in three-dimensional high-efficiency video coding. <i>Journal of Electronic Imaging</i> , 2016 , 25, 033023	0.7	4
85	Fast HEVC screen content coding by skipping unnecessary checking of intra block copy mode based on CU activity and gradient 2016 ,		18
84	Quadtree decision for depth intra coding in 3D-HEVC by good feature 2016 ,		15

83	Low relative speed moving vehicle detection using motion vectors and generic line features 2015 ,		2
82	. <i>IEEE Transactions on Consumer Electronics</i> , 2015 , 61, 384-392	4.8	11
81	Practical application of random forests for super-resolution imaging 2015 ,		8
80	Single-image super-resolution using iterative Wiener filter based on nonlocal means. <i>Signal Processing: Image Communication</i> , 2015 , 39, 26-45	2.8	9
79	Fast and efficient intra coding techniques for smooth regions in screen content coding based on boundary prediction samples 2015 ,		26
78	Maximally Decimated Paraunitary Linear Phase FIR Filter Bank Design via Iterative SVD Approach. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 466-481	4.8	13
77	Hash based fast local search for Intra Block Copy (IntraBC) mode in HEVC screen content coding 2015 ,		19
76	View synthesis optimization based on texture smoothness for 3D-HEVC 2015 ,		10
75	Fast image interpolation via random forests. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 3232-45	8.7	74
74	Image super-resolution via hybrid NEDI and wavelet-based scheme 2015 ,		6
73	Real time railway extraction by angle alignment measure 2015 ,		5
72	A joint framework for missing values estimation and biclusters detection in gene expression data. <i>International Journal of Bioinformatics Research and Applications</i> , 2014 , 10, 574-86	0.9	1
71	Depth-based adaptive search range algorithm for motion estimation in HEVC 2014 ,		3
70	Exploiting inter-layer correlations in scalable HEVC for the support of screen content videos 2014 ,		11
69	Novel Adaptive Algorithm for Intra Prediction With Compromised Modes Skipping and Signaling Processes in HEVC. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2013 , 23, 1686-1694	6.4	53
68	Improved hierarchial intra prediction based on adaptive interpolation filtering for lossless compression 2013 ,		1
67	Improved algorithm for detecting zero-quantised discrete cosine transform coefficients in H.264/AVC (revised version). <i>IET Image Processing</i> , 2013 , 7, 92-97	1.7	0
66	Region-based weighted prediction algorithm for H.264/AVC video coding 2013 ,		1

65	Hybrid DCT-Wiener-based interpolation via learnt Wiener filter 2013 ,	7
64	A two dimensional camera identification method based on image sensor noise 2012 ,	3
63	Accurate distance estimation using camera orientation compensation technique for vehicle driver assistance system 2012 ,	7
62	Keyframe selection for motion capture using motion activity analysis 2012 ,	5
61	Depth-assisted nonlocal means hole filling for novel view synthesis 2012 ,	2
60	Fast video interpolation/upsampling using linear motion model 2011 ,	4
59	A New Dual-bitstream Video Streaming System with VCR Functionalities Using SP/SI-frames. <i>Journal of Signal Processing Systems</i> , 2011 , 62, 403-414	1.4
58	Low-complexity intra prediction algorithm for video down-sizing transcoder 2011 ,	4
57	Comments on "2-D Order-16 Integer Transforms for HD Video Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 1765-1767	6.4 1
56	Transform Kernel Selection Strategy for the H.264/AVC and Future Video Coding Standards. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 1631-1645	6.4 4
55	Improved SIMD Architecture for High Performance Video Processors. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011 , 21, 1769-1783	6.4 7
54	Single image super-resolution using Gaussian process regression 2011 ,	134
53	Effective bi-directional people flow counting for real time surveillance system 2011 ,	10
52	Improved lossless coding algorithm in H.264/AVC based on hierarchical intra prediction 2011 ,	4
51	Local affine motion prediction for H.264 without extra overhead 2010 ,	12
50	Fast video object detection via multiple background modeling 2010 ,	3
49	A new motion vector composition algorithm for fast-forward video playback in H.264 2010 ,	4
48	Improved image interpolation using bilateral filter for weighted least square estimation 2010 ,	16

47	Fast iterative motion and disparity estimation algorithm for multiview video coding 2010 ,		9
46	Two-Channel Linear Phase FIR QMF Bank Minimax Design via Global Nonconvex Optimization Programming. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 4436-4441	4.8	34
45	Reply to Comments on "The Discrete Periodic Radon Transform" <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 5963-5964	4.8	2
44	Computationally-scalable motion estimation algorithm for H.264/AVC video coding. <i>IEEE Transactions on Consumer Electronics</i> , 2010 , 56, 895-903	4.8	15
43	Quantized Transform-Domain Motion Estimation for SP-Frame Coding in Viewpoint Switching of Multiview Video. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2010 , 20, 365-381	6.4	4
42	Adaptive Directional Window Selection for Edge-Directed Interpolation 2010 ,		11
41	Fast motion and disparity estimation for multiview video coding. <i>Frontiers of Computer Science</i> , 2010 , 4, 571-579		2
40	Efficient inter mode decision for H.263 to H.264 video transcoding using support vector machines 2009 ,		1
39	New motion compensation model via frequency classification for fast video super-resolution 2009 ,		2
38	H.264 fast intra mode selection algorithm based on direction difference measure in the pixel domain 2009 ,		1
37	A Fast View-Temporal Prediction Algorithm for Stereoscopic Video Coding 2009 ,		3
36	Retinex based motion estimation for sequences with brightness variations and its application to H.264. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	1
35	Image annotation with parametric mixture model based multi-class multi-labeling 2008 ,		2
34	Redundancy Reduction Technique for Dual-Bitstream MPEG Video Streaming With VCR Functionalities. <i>IEEE Transactions on Broadcasting</i> , 2008 , 54, 412-418	4.7	6
33	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
32	New Block-Based Motion Estimation for Sequences with Brightness Variation and Its Application to Static Sprite Generation for Video Compression. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2008 , 18, 522-527	6.4	4
31	Fast intra mode decision algorithm for H.263 to H.264/AVC transcoding 2008 ,		1
30	Efficient reverse-play algorithms for MPEG video with VCR support. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2006 , 16, 19-30	6.4	11

29	Generalized Hough Transform Using Regions with Homogeneous Color. <i>International Journal of Computer Vision</i> , 2004 , 59, 183-199	10.6	3
28	An efficient recursive shortest spanning tree algorithm using linking properties. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2004 , 14, 852-863	6.4	10
27	Efficient Learning in Adaptive Processing of Data Structures. <i>Neural Processing Letters</i> , 2003 , 17, 175-190.	6.4	17
26	An efficient computational scheme for the two-dimensional overcomplete wavelet transform. <i>IEEE Transactions on Signal Processing</i> , 2002 , 50, 2806-2819	4.8	5
25	An efficient algorithm for the extraction of a Euclidean skeleton 2002 ,		3
24	Extraction and optimization of B-spline PBD templates for recognition of connected handwritten digit strings. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2002 , 24, 132-139	13.3	11
23	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
22	Improved techniques for automatic image segmentation. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2001 , 11, 1273-1280	6.4	48
21	A robust model generation technique for model-based video coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2001 , 11, 1188-1192	6.4	
20	An efficient search strategy for block motion estimation using image features. <i>IEEE Transactions on Image Processing</i> , 2001 , 10, 1223-38	8.7	27
19	An efficient low bit-rate video-coding algorithm focusing on moving regions. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2001 , 11, 1128-1134	6.4	25
18	Document image matching based on component blocks 2000 ,		1
17	New approaches without postprocessing to FIR system identification using selected order cumulants. <i>IEEE Transactions on Signal Processing</i> , 2000 , 48, 1144-1153	4.8	2
16	Efficient recursive algorithm for the inverse discrete cosine transform. <i>IEEE Signal Processing Letters</i> , 2000 , 7, 276-277	3.2	8
15	A feature-assisted search strategy for block motion estimation 1999 ,		1
14	Reliable search strategy for block motion estimation by measuring the error surface 1999 ,		1
13	Analysis of the convergence and divergence of a constrained anti-Hebbian learning algorithm. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 1998 , 45, 1494-1502		3
12	A class of competitive learning models which avoids neuron underutilization problem. <i>IEEE Transactions on Neural Networks</i> , 1998 , 9, 1258-69		9

11	An efficient color compensation scheme for skin color segmentation	1
10	Maximal disk based histogram for shape retrieval	1
9	Low complexity H.263 to H.264 video transcoding using motion vector decomposition	4
8	A fast bit allocation algorithm for MPEG audio encoder	1
7	Fast global motion estimation for sprite generation	2
6	A new approach using modified Hausdorff distances with eigenface for human face recognition	1
5	An efficient and accurate algorithm for extracting a skeleton	1
4	Recursive algorithm for the realization of the discrete cosine transform	1
3	Human face recognition using a spatially weighted modified Hausdorff distance	1
2	Fast algorithm for binary field wavelet transform for image processing	1
1	Improved macroblock-based reverse play algorithm for MPEG video streaming	1