

# Wan-Chi Siu

## List of Publications by Citations

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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	Single image super-resolution using Gaussian process regression <b>2011</b> ,		134
117	Fast image interpolation via random forests. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 3232-45	8.7	74
116	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> , <b>2013</b> , 23, 1686-1694	6.4	53
115	Improved techniques for automatic image segmentation. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2001</b> , 11, 1273-1280	6.4	48
114	Frame Complexity-Based Rate-Quantization Model for H.264/AVC Intraframe Rate Control. <i>IEEE Signal Processing Letters</i> , <b>2008</b> , 15, 373-376	3.2	47
113	Learning Hierarchical Decision Trees for Single-Image Super-Resolution. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2017</b> , 27, 937-950	6.4	37
112	Two-Channel Linear Phase FIR QMF Bank Minimax Design via Global Nonconvex Optimization Programming. <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 4436-4441	4.8	34
111	Lightening Network for Low-Light Image Enhancement. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> , 29, 7984-7996	8.7	29
110	An efficient search strategy for block motion estimation using image features. <i>IEEE Transactions on Image Processing</i> , <b>2001</b> , 10, 1223-38	8.7	27
109	Fast and efficient intra coding techniques for smooth regions in screen content coding based on boundary prediction samples <b>2015</b> ,		26
108	An efficient low bit-rate video-coding algorithm focusing on moving regions. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2001</b> , 11, 1128-1134	6.4	25
107	Image Super-Resolution via Attention Based Back Projection Networks <b>2019</b> ,		25
106	. <i>IEEE Transactions on Multimedia</i> , <b>2019</b> , 21, 269-283	6.6	23
105	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> , <b>2020</b> , 29, 170-185	8.7	22
104	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> , <b>2020</b> , 30, 1481-1496	6.4	20
103	Hash based fast local search for Intra Block Copy (IntraBC) mode in HEVC screen content coding <b>2015</b> ,		19
102	Fast HEVC screen content coding by skipping unnecessary checking of intra block copy mode based on CU activity and gradient <b>2016</b> ,		18

101	Adaptive Search Range for HEVC Motion Estimation Based on Depth Information. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2017</b> , 27, 2216-2230	6.4	17
100	Efficient Learning in Adaptive Processing of Data Structures. <i>Neural Processing Letters</i> , <b>2003</b> , 17, 175-190.	4	17
99	Improved image interpolation using bilateral filter for weighted least square estimation <b>2010</b> ,		16
98	Computationally-scalable motion estimation algorithm for H.264/AVC video coding. <i>IEEE Transactions on Consumer Electronics</i> , <b>2010</b> , 56, 895-903	4.8	15
97	Quadtree decision for depth intra coding in 3D-HEVC by good feature <b>2016</b> ,		15
96	Hierarchical Back Projection Network for Image Super-Resolution <b>2019</b> ,		15
95	Maximally Decimated Paraunitary Linear Phase FIR Filter Bank Design via Iterative SVD Approach. <i>IEEE Transactions on Signal Processing</i> , <b>2015</b> , 63, 466-481	4.8	13
94	Fast mode decision algorithm for HEVC screen content intra coding <b>2017</b> ,		13
93	Local affine motion prediction for H.264 without extra overhead <b>2010</b> ,		12
92	Image super-resolution via weighted random forest <b>2017</b> ,		11
91	. <i>IEEE Transactions on Consumer Electronics</i> , <b>2015</b> , 61, 384-392	4.8	11
90	Exploiting inter-layer correlations in scalable HEVC for the support of screen content videos <b>2014</b> ,		11
89	Adaptive Directional Window Selection for Edge-Directed Interpolation <b>2010</b> ,		11
88	Efficient reverse-play algorithms for MPEG video with VCR support. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2006</b> , 16, 19-30	6.4	11
87	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> , <b>2002</b> , 24, 132-139	13.3	11
86	Photo-Realistic Image Super-Resolution via Variational Autoencoders. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2021</b> , 31, 1351-1365	6.4	11
85	Fast image super-resolution via Randomized Multi-split Forests <b>2017</b> ,		10
84	View synthesis optimization based on texture smoothness for 3D-HEVC <b>2015</b> ,		10

83	Effective bi-directional people flow counting for real time surveillance system <b>2011</b> ,		10
82	An efficient recursive shortest spanning tree algorithm using linking properties. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2004</b> , 14, 852-863	6.4	10
81	Single-image super-resolution using iterative Wiener filter based on nonlocal means. <i>Signal Processing: Image Communication</i> , <b>2015</b> , 39, 26-45	2.8	9
80	Fast iterative motion and disparity estimation algorithm for multiview video coding <b>2010</b> ,		9
79	A class of competitive learning models which avoids neuron underutilization problem. <i>IEEE Transactions on Neural Networks</i> , <b>1998</b> , 9, 1258-69		9
78	Practical application of random forests for super-resolution imaging <b>2015</b> ,		8
77	Reference Based Face Super-Resolution. <i>IEEE Access</i> , <b>2019</b> , 7, 129112-129126	3.5	8
76	Efficient recursive algorithm for the inverse discrete cosine transform. <i>IEEE Signal Processing Letters</i> , <b>2000</b> , 7, 276-277	3.2	8
75	Unsupervised Real Image Super-Resolution via Generative Variational AutoEncoder <b>2020</b> ,		8
74	Accurate distance estimation using camera orientation compensation technique for vehicle driver assistance system <b>2012</b> ,		7
73	Hybrid DCT-Wiener-based interpolation via learnt Wiener filter <b>2013</b> ,		7
72	Improved SIMD Architecture for High Performance Video Processors. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2011</b> , 21, 1769-1783	6.4	7
71	Cascaded Random Forests for Fast Image Super-Resolution <b>2018</b> ,		7
70	DeepSCC: Deep Learning-Based Fast Prediction Network for Screen Content Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2019</b> , 1-1	6.4	6
69	Decoder side merge mode and AMVP in HEVC screen content coding <b>2017</b> ,		6
68	Image super-resolution via hybrid NEDI and wavelet-based scheme <b>2015</b> ,		6
67	Redundancy Reduction Technique for Dual-Bitstream MPEG Video Streaming With VCR Functionalities. <i>IEEE Transactions on Broadcasting</i> , <b>2008</b> , 54, 412-418	4.7	6
66	Fast intraprediction for high-efficiency video coding screen content coding by content analysis and dynamic thresholding. <i>Journal of Electronic Imaging</i> , <b>2018</b> , 27, 1	0.7	6

65	Deep Relighting Networks for Image Light Source Manipulation. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 550-567	0.9	6
64	Real time railway extraction by angle alignment measure <b>2015</b> ,		5
63	Keyframe selection for motion capture using motion activity analysis <b>2012</b> ,		5
62	An efficient computational scheme for the two-dimensional overcomplete wavelet transform. <i>IEEE Transactions on Signal Processing</i> , <b>2002</b> , 50, 2806-2819	4.8	5
61	Efficient wedgelet pattern decision for depth modeling modes in three-dimensional high-efficiency video coding. <i>Journal of Electronic Imaging</i> , <b>2016</b> , 25, 033023	0.7	4
60	Vehicle detection under tough conditions using prioritized feature extraction with shadow recognition <b>2017</b> ,		4
59	Fast video interpolation/upsampling using linear motion model <b>2011</b> ,		4
58	A new motion vector composition algorithm for fast-forward video playback in H.264 <b>2010</b> ,		4
57	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> , <b>2010</b> , 20, 365-381	6.4	4
56	Low-complexity intra prediction algorithm for video down-sizing transcoder <b>2011</b> ,		4
55	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> , <b>2011</b> , 21, 1631-1645	6.4	4
54	Improved lossless coding algorithm in H.264/AVC based on hierarchical intra prediction <b>2011</b> ,		4
53	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> , <b>2008</b> , 18, 522-527	6.4	4
52	Low complexity H.263 to H.264 video transcoding using motion vector decomposition		4
51	Features Guided Face Super-Resolution via Hybrid Model of Deep Learning and Random Forests. <i>IEEE Transactions on Image Processing</i> , <b>2021</b> , 30, 4157-4170	8.7	4
50	Depth-based adaptive search range algorithm for motion estimation in HEVC <b>2014</b> ,		3
49	A two dimensional camera identification method based on image sensor noise <b>2012</b> ,		3
48	Fast video object detection via multiple background modeling <b>2010</b> ,		3

47	A Fast View-Temporal Prediction Algorithm for Stereoscopic Video Coding <b>2009</b> ,		3
46	Generalized Hough Transform Using Regions with Homogeneous Color. <i>International Journal of Computer Vision</i> , <b>2004</b> , 59, 183-199	10.6	3
45	An efficient algorithm for the extraction of a Euclidean skeleton <b>2002</b> ,		3
44	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> , <b>1998</b> , 45, 1494-1502		3
43	DeepGIN: Deep Generative Inpainting Network for Extreme Image Inpainting. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 5-22	0.9	3
42	Low relative speed moving vehicle detection using motion vectors and generic line features <b>2015</b> ,		2
41	Design of variable bandwidth symmetric/anti-symmetric FIR single-band PCLS lowpass and highpass filters. <i>Signal, Image and Video Processing</i> , <b>2016</b> , 10, 37-43	1.6	2
40	Early merge mode decision for depth maps in 3D-HEVC <b>2017</b> ,		2
39	Reply to Comments on The Discrete Periodic Radon Transform <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 5963-5964	4.8	2
38	New motion compensation model via frequency classification for fast video super-resolution <b>2009</b> ,		2
37	Depth-assisted nonlocal means hole filling for novel view synthesis <b>2012</b> ,		2
36	Fast motion and disparity estimation for multiview video coding. <i>Frontiers of Computer Science</i> , <b>2010</b> , 4, 571-579		2
35	Image annotation with parametric mixture model based multi-class multi-labeling <b>2008</b> ,		2
34	Fast global motion estimation for sprite generation		2
33	New approaches without postprocessing to FIR system identification using selected order cumulants. <i>IEEE Transactions on Signal Processing</i> , <b>2000</b> , 48, 1144-1153	4.8	2
32	Fast Monocular Visual Place Recognition for Non-Uniform Vehicle Speed and Varying Lighting Environment. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 22, 1679-1696	6.1	2
31	Joint Back Projection and Residual Networks for Efficient Image Super-Resolution <b>2018</b> ,		2
30	Fast Monocular Vision-based Railway Localization for Situations with Varying Speeds <b>2018</b> ,		2

29	Fast HEVC to SCC Transcoding Based on Decision Trees <b>2018</b> ,		2
28	Learning via Decision Trees Approach for Video Super-Resolution <b>2017</b> ,		1
27	A joint framework for missing values estimation and biclusters detection in gene expression data. <i>International Journal of Bioinformatics Research and Applications</i> , <b>2014</b> , 10, 574-86	0.9	1
26	Improved hierarchial intra prediction based on adaptive interpolation filtering for lossless compression <b>2013</b> ,		1
25	Region-based weighted prediction algorithm for H.264/AVC video coding <b>2013</b> ,		1
24	Comments on "2-D Order-16 Integer Transforms for HD Video Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2011</b> , 21, 1765-1767	6.4	1
23	Efficient inter mode decision for H.263 to H.264 video transcoding using support vector machines <b>2009</b> ,		1
22	H.264 fast intra mode selection algorithm based on direction difference measure in the pixel domain <b>2009</b> ,		1
21	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> , <b>2008</b> ,	1.6	1
20	Fast intra mode decision algorithm for H.263 to H.264/AVC transcoding <b>2008</b> ,		1
19	An efficient color compensation scheme for skin color segmentation		1
18	Maximal disk based histogram for shape retrieval		1
17	A fast bit allocation algorithm for MPEG audio encoder		1
16	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> , <b>2001</b> , 48, 985-988		1
15	A new approach using modified Hausdorff distances with eigenface for human face recognition		1
14	An efficient and accurate algorithm for extracting a skeleton		1
13	Document image matching based on component blocks <b>2000</b> ,		1
12	Recursive algorithm for the realization of the discrete cosine transform		1

11	Human face recognition using a spatially weighted modified Hausdorff distance		1
10	Fast algorithm for binary field wavelet transform for image processing		1
9	A feature-assisted search strategy for block motion estimation <b>1999</b> ,		1
8	Reliable search strategy for block motion estimation by measuring the error surface <b>1999</b> ,		1
7	Improved macroblock-based reverse play algorithm for MPEG video streaming		1
6	Variational AutoEncoder for Reference based Image Super-Resolution <b>2021</b> ,		1
5	Vision-based Place Recognition Using ConvNet Features and Temporal Correlation Between Consecutive Frames <b>2019</b> ,		1
4	Improved algorithm for detecting zero-quantised discrete cosine transform coefficients in H.264/AVC (revised version). <i>IET Image Processing</i> , <b>2013</b> , 7, 92-97	1.7	0
3	A New Dual-bitstream Video Streaming System with VCR Functionalities Using SP/SI-frames. <i>Journal of Signal Processing Systems</i> , <b>2011</b> , 62, 403-414	1.4	
2	A robust model generation technique for model-based video coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2001</b> , 11, 1188-1192	6.4	
1	Efficient Video Super-Resolution via Hierarchical Temporal Residual Networks. <i>IEEE Access</i> , <b>2021</b> , 9, 106049-106064	9.9	