Donggyu Sim

List of Publications by Year
in descending order

53 papers	377 citations	1040056 9 h-index	888059 17 g-index
53 all docs	53 docs citations	53 times ranked	335 citing authors

#	Article	IF	Citations
1	Pixel-Wise Unified Rate-Quantization Model for Multi-Level Rate Control. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 1112-1123.	10.8	89
2	Dual-Dense Convolution Network for Change Detection of High-Resolution Panchromatic Imagery. Applied Sciences (Switzerland), 2018, 8, 1785.	2.5	32
3	Change Detection on Multi-Spectral Images Based on Feature-level U-Net. IEEE Access, 2020, 8, 12279-12289.	4.2	17
4	Scalable video coding based on high efficiency video coding (HEVC). , 2011, , .		15
5	Fast intra mode decision for HEVC intra coding. , 2014, , .		15
6	Fusion Network for Change Detection of High-Resolution Panchromatic Imagery. Applied Sciences (Switzerland), 2019, 9, 1441.	2.5	15
7	Fast motion estimation for HEVC on graphics processing unit (GPU). Journal of Real-Time Image Processing, 2016, 12, 549-562.	3.5	14
8	A context-adaptive fast intra coding algorithm of high-efficiency video coding (HEVC). Journal of Real-Time Image Processing, 2019, 16, 883-899.	3.5	14
9	An efficienct rate-control algorithm for multi-view video coding. , 2009, , .		12
10	Square-type-first inter-CU tree search algorithm for acceleration of HEVC encoder. Journal of Real-Time Image Processing, 2016, 12, 419-432.	3.5	12
11	A perceptual rate control algorithm based on luminance adaptation for HEVC encoders. Signal, Image and Video Processing, 2020, 14, 887-895.	2.7	12
12	A CNN-Based High-Accuracy Registration for Remote Sensing Images. Remote Sensing, 2021, 13, 1482.	4.0	12
13	Integer-Pel Motion Estimation for HEVC on Compute Unified Device Architecture (CUDA). IEIE Transactions on Smart Processing and Computing, 2014, 3, 397-403.	0.4	11
14	Multivariate Time–Frequency Analysis of Electrohysterogram for Classification of Term and Preterm Labor. Journal of Electrical Engineering and Technology, 2019, 14, 897-916.	2.0	9
15	Low-complexity CNN with 1D and 2D filters for super-resolution. Journal of Real-Time Image Processing, 2020, 17, 2065-2076.	3.5	9
16	Scalable Extension of HEVC for Flexible High-Quality Digital Video Content Services. ETRI Journal, 2013, 35, 990-1000.	2.0	8
17	Statistical Characteristics and Complexity Analysis of HEVC Encoder Software. Journal of Broadcast Engineering, 2012, 17, 1091-1105.	0.1	8
18	Perceptual Adaptive Quantization Parameter Selection Using Deep Convolutional Features for HEVC Encoder. IEEE Access, 2020, 8, 37052-37065.	4.2	7

#	ARTICLE	IF	CITATIONS
19	Lossless video coding based on pixel-wise prediction. Multimedia Systems, 2008, 14, 291-298.	4.7	6
20	Parallelized deblocking filtering of HEVC decoders based on complexity estimation. Journal of Real-Time Image Processing, 2016, 12, 369-382.	3.5	6
21	Optimal CTU-Level Rate Control Model for HEVC Based on Deep Convolutional Features. IEEE Access, 2020, 8, 165670-165682.	4.2	6
22	Performance Analysis of HEVC Parallelization Methods for High-Resolution Videos. IEIE Transactions on Smart Processing and Computing, 2015, 4, 28-34.	0.4	6
23	Full depth RQT after PU decision for fast encoding of HEVC. , 2014, , .		5
24	Detection and compression of moving objects based on new panoramic image modeling. Image and Vision Computing, 2009, 27, 1527-1539.	4.5	4
25	New MCT-based face recognition under varying lighting conditions. International Journal of Control, Automation and Systems, 2011, 9, 542-549.	2.7	4
26	Hybrid parallelization for HEVC decoder. , 2013, , .		4
27	Tile-level rate control for tile-parallelization HEVC encoders. Journal of Real-Time Image Processing, 2019, 16, 2107-2125.	3.5	4
28	Analysis of Screen Content Coding Based on HEVC. IEIE Transactions on Smart Processing and Computing, 2015, 4, 231-236.	0.4	3
29	Intra Block Copy Analysis to Improve Coding Efficiency for HEVC Screen Content Coding. Journal of Broadcast Engineering, 2015, 20, 57-67.	0.1	3
30	Deep Convolutional Feature-Driven Rate Control for the HEVC Encoders. IEEE Access, 2021, 9, 162018-162034.	4.2	3
31	Bitstream decoding processor for fast entropy decoding of variable length coding–based multiformat videos. Optical Engineering, 2014, 53, 063102.	1.0	2
32	Low-complexity inter-layer residual prediction for scalable video coding. Journal of Real-Time Image Processing, 2018, 14, 783-792.	3.5	2
33	Fast mode decision and early termination based on perceptual visual quality for HEVC encoders. Journal of Real-Time Image Processing, 2019, 16, 1927-1942.	3.5	2
34	Early Termination of Block Vector Search for Fast Encoding of HEVC Screen Content Coding. IEIE Transactions on Smart Processing and Computing, 2014, 3, 388-392.	0.4	2
35	Compressive Sensing recovery with improved hybrid filter. , 2013, , .		1
36	Load Balancing Based on Transform Unit Partition Information for High Efficiency Video Coding Deblocking Filter. ETRI Journal, 2017, 39, 301-309.	2.0	1

#	Article	IF	Citations
37	Fast Thumbnail Extraction for H.264/AVC, HEVC and VP9. Applied Sciences (Switzerland), 2021, 11, 1844.	2.5	1
38	Layered Coding Method for Scalable Coding of HDR and SDR videos. Journal of Broadcast Engineering, 2015, 20, 756-769.	0.1	1
39	Scalable representation of vector descriptors. Multimedia Systems, 2006, 11, 315-319.	4.7	0
40	Macroblock-Based Adaptive Loop Filter for Video Compression. , 2011, , .		0
41	LDPC based distributed video coding with multiple side information sets. , 2011, , .		0
42	Software pipelining with CGA and proposed intrinsics on a reconfigurable processor for HEVC decoders. Journal of Real-Time Image Processing, 2019, 16, 2173-2187.	3.5	0
43	Perceptual intra-frame coding for HEVC still picture profile based on invisible signal suppression. Signal, Image and Video Processing, 2020, 14, 1053-1061.	2.7	0
44	Novel Motion and Disparity Prediction for Multi-view Video Coding. IEIE Transactions on Smart Processing and Computing, 2014, 3, 118-127.	0.4	0
45	Perceptual Quality-based Video Coding with Foveated Contrast Sensitivity. Journal of Broadcast Engineering, 2014, 19, 468-477.	0.1	0
46	SIMD Instruction-based Fast HEVC RExt Decoder. Journal of Broadcast Engineering, 2015, 20, 224-237.	0.1	0
47	Scalable Multi-view Video Coding based on HEVC. IEIE Transactions on Smart Processing and Computing, 2015, 4, 434-442.	0.4	0
48	Inter-layer Texture and Syntax Prediction for Scalable Video Coding. IEIE Transactions on Smart Processing and Computing, 2015, 4, 422-433.	0.4	0
49	Study on Fast HEVC Encoding with Hierarchical Motion Vector Clustering. Journal of Broadcast Engineering, 2016, 21, 578-591.	0.1	0
50	Low-Complexity Watermarking into SAO Offsets for HEVC Videos. IEIE Transactions on Smart Processing and Computing, 2016, 5, 243-249.	0.4	0
51	A Perceptual Rate Control Algorithm with S-JND Model for HEVC Encoder. Journal of Broadcast Engineering, 2016, 21, 929-943.	0.1	0
52	Adaptive Reference Structure Decision Method for HEVC Encoder. Journal of Broadcast Engineering, 2017, 22, 1-14.	0.1	0
53	Human Visual Perception-Based Quantization For Efficiency HEVC Encoder. Journal of Broadcast Engineering, 2017, 22, 28-41.	0.1	0