

Stephane Coulombe

List of Publications by Year in descending order

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64
papers

428
citations

1162367

8
h-index

1125271

13
g-index

64
all docs

64
docs citations

64
times ranked

245
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast HEVC Intra Mode Decision Based on Edge Detection and SATD Costs Classification. , 2015, , .		36
2	Fast HEVC Intra Mode Decision Based on RDO Cost Prediction. IEEE Transactions on Broadcasting, 2019, 65, 109-122.	2.5	34
3	A novel discrete wavelet transform framework for full reference image quality assessment. Signal, Image and Video Processing, 2013, 7, 559-573.	1.7	25
4	Multimedia adaptation for the multimedia messaging service. , 2004, 42, 120-126.		24
5	Low-Complexity Transcoding of JPEG Images With Near-Optimal Quality Using a Predictive Quality Factor and Scaling Parameters. IEEE Transactions on Image Processing, 2010, 19, 712-721.	6.0	20
6	Quality-aware selection of quality factor and scaling parameters in JPEG image transcoding. , 2009, , .		14
7	Fast H.264 to HEVC transcoder based on post-order traversal of quadtree structure. , 2015, , .		14
8	A multi-frame and multi-slice H.264 parallel video encoding approach with simultaneous encoding of prediction frames. , 2012, , .		13
9	Power Modeling for Video Streaming Applications on Mobile Devices. IEEE Access, 2020, 8, 70234-70244.	2.6	13
10	Computationally efficient algorithms for predicting the file size of JPEG images subject to changes of quality factor and scaling. , 2008, , .		12
11	Nonuniform perfect reconstruction filter banks over lattices with application to transmultiplexers. IEEE Transactions on Signal Processing, 1999, 47, 1010-1023.	3.2	10
12	A novel approach for computing and pooling Structural SIMilarity index in the discrete wavelet domain. , 2009, , .		10
13	Quality Prediction-Based Dynamic Content Adaptation Framework Applied to Collaborative Mobile Presentations. IEEE Transactions on Mobile Computing, 2013, 12, 2024-2036.	3.9	10
14	Video Error Correction Using Soft-Output and Hard-Output Maximum Likelihood Decoding Applied to an H.264 Baseline Profile. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1161-1174.	5.6	10
15	A Novel Discrete Wavelet Domain Error-Based Image Quality Metric with Enhanced Perceptual Performance. International Journal of Computer and Electrical Engineering, 2012, , 390-395.	0.2	10
16	Pixel domain referenceless visual degradation detection and error concealment for mobile video. , 2011, , .		9
17	A new image registration method robust to noise. Multidimensional Systems and Signal Processing, 2014, 25, 601-609.	1.7	8
18	Efficient H.264-to-HEVC Transcoding Based on Motion Propagation and Post-Order Traversal of Coding Tree Units. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 3452-3466.	5.6	8

#	ARTICLE	IF	CITATIONS
19	Checksum-Filtered List Decoding Applied to H.264 and H.265 Video Error Correction. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1993-2006.	5.6	8
20	Table-Free Multiple Bit-Error Correction Using the CRC Syndrome. IEEE Access, 2020, 8, 102357-102372.	2.6	8
21	Linear phase and symmetries for multidimensional FIR filters over lattices. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1998, 45, 473-481.	2.3	7
22	Multi-Objective Optimization in Dynamic Content Adaptation of Slide Documents. IEEE Transactions on Services Computing, 2017, 10, 231-243.	3.2	7
23	A Maximum Likelihood Approach to Video Error Correction Applied to H.264 Decoding. , 2012, , .		6
24	Efficient Near-Optimal Dynamic Content Adaptation Applied to JPEG Slides Presentations in Mobile Web Conferencing. , 2013, , .		6
25	Rate distortion-based motion estimation search ordering for rate-constrained successive elimination algorithms. , 2014, , .		6
26	An adaptive search ordering for rate-constrained successive elimination algorithms. , 2015, , .		6
27	CU Size Decision for Low Complexity HEVC Intra Coding based on Deep Reinforcement Learning. , 2020, , .		6
28	Robust H.264 Video Decoding Using Crc-Based Single Error Correction And Non-Desynchronizing Bits Validation. , 2020, , .		6
29	Low-complexity computation of visual information fidelity in the discrete wavelet domain. , 2010, , .		5
30	Coding unit splitting early termination for fast HEVC intra coding based on global and directional gradients. , 2016, , .		5
31	The Impact of H.264 Non-Desynchronizing Bits on Visual Quality and its Application to Robust Video Decoding. , 2018, , .		5
32	Cost-Based Search Ordering for Rate-Constrained Motion Estimation Applied to HEVC. IEEE Transactions on Broadcasting, 2018, 64, 922-932.	2.5	5
33	K-Means Based Prediction of Transcoded JPEG File Size and Structural Similarity. International Journal of Multimedia Data Engineering and Management, 2012, 3, 41-57.	0.3	5
34	No-Reference Video Quality Assessment Using Distortion Learning and Temporal Attention. IEEE Access, 2022, 10, 41010-41022.	2.6	5
35	A maximum likelihood approach to correcting transmission errors for joint source-channel decoding of H.264 coded video. , 2013, , .		4
36	Highly parallel HEVC motion estimation based on multiple temporal predictors and nested diamond search. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
37	Enhanced CRC-based correction of multiple errors with candidate validation. Signal Processing: Image Communication, 2021, 99, 116475.	1.8	4
38	CRC-Based Correction of Multiple Errors Using an Optimized Lookup Table. IEEE Access, 2022, 10, 23931-23947.	2.6	4
39	Speeding up motion estimation in modern video encoders using approximate metrics and SIMD processors. , 2009, , .		3
40	Optimal quality-aware predictor-based adaptation of multimedia messages. , 2011, , .		3
41	RDO cost modeling for low-complexity HEVC intra coding. , 2016, , .		3
42	Low complexity H.264 list decoder for enhanced quality real-time video over IP. , 2017, , .		3
43	An Image Visual Quality Assessment Method Based on SIFT Features. Journal of Pattern Recognition Research, 2013, 8, 85-97.	0.9	3
44	A Transcoding Server for the Home Domain. , 2007, , .		2
45	Real-Time Multi-user Transcoding for Push to Talk over Cellular. , 2008, , .		2
46	Efficient Clustering-based Algorithm for Predicting File Size and Structural Similarity of Transcoded JPEG Images. , 2011, , .		2
47	An FFT-based visual quality metric robust to spatial shift. , 2012, , .		2
48	Robust QoE-aware prediction-based dynamic content adaptation framework applied to slides documents in mobile Web conferencing. Multimedia Tools and Applications, 2015, 74, 7883-7920.	2.6	2
49	Sub-partition reuse for fast optimal motion estimation in HEVC successive elimination algorithms. , 2016, , .		2
50	Residual packet loss rate analysis of 2-D parity forward error correction. Signal Processing: Image Communication, 2022, 102, 116597.	1.8	2
51	CRC-Based Multi-Error Correction of H.265 Encoded Videos in Wireless Communications. , 2021, , .		2
52	<title>Compatible NTSC system with cross-talk-free multiplexing of luminance and chrominance</title>. , 1997, , .		1
53	Visual Quality and File Size Prediction of H.264 Videos and Its Application to Video Transcoding for the Multimedia Messaging Service and Video on Demand. , 2013, , .		1
54	Quality-aware predictor-based adaptation of still images for the multimedia messaging service. Multimedia Tools and Applications, 2014, 72, 1841-1865.	2.6	1

#	ARTICLE	IF	CITATIONS
55	Massively parallel rate-constrained motion estimation using multiple temporal predictors in HEVC. , 2017, , .		1
56	Multi-level rate-constrained successive elimination algorithm tailored to suboptimal motion estimation in HEVC. Signal Processing: Image Communication, 2020, 81, 115719.	1.8	1
57	Content Adaptation for the Mobile Internet. , 2005, , 205-254.		0
58	Efficient MPEG-4 to H.264 transcoding exploiting MPEG-4 block modes, motion vectors, and residuals. , 2009, , .		0
59	Exploiting motion estimation resilience to approximated metrics on SIMD-capable general processors: From Atom to Nehalem. , 2010, , .		0
60	Adaptive video denoising using block matching 3-D filtering. , 2012, , .		0
61	Performance evaluation of maximum likelihood decoding combined with error resilient video coding. , 2014, , .		0
62	Geometrically constrained sub-pixel disparity estimation from stereo images of the retinal fundus. IS&T International Symposium on Electronic Imaging, 2016, 28, 1-8.	0.3	0
63	Motion Occlusions for Automatic Generation of Relative Depth Maps. , 2018, , .		0
64	A TOPSIS-based QoE model for adapted content selection of slide documents. Multimedia Tools and Applications, 2018, 77, 26741-26768.	2.6	0