

Stephane Coulombe

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.

55
papers

295
citations

9
h-index

13
g-index

64
ext. papers

358
ext. citations

3.2
avg, IF

3.84
L-index

#	Paper	IF	Citations
55	Fast HEVC Intra Mode Decision Based on Edge Detection and SATD Costs Classification 2015 ,		27
54	Fast HEVC Intra Mode Decision Based on RDO Cost Prediction. <i>IEEE Transactions on Broadcasting</i> , 2019 , 65, 109-122	4.7	19
53	Multimedia adaptation for the multimedia messaging service 2004 , 42, 120-126		19
52	A novel discrete wavelet transform framework for full reference image quality assessment. <i>Signal, Image and Video Processing</i> , 2013 , 7, 559-573	1.6	18
51	Low-complexity transcoding of JPEG images with near-optimal quality using a predictive quality factor and scaling parameters. <i>IEEE Transactions on Image Processing</i> , 2010 , 19, 712-21	8.7	17
50	Quality-aware selection of quality factor and scaling parameters in JPEG image transcoding 2009 ,		12
49	A multi-frame and multi-slice H.264 parallel video encoding approach with simultaneous encoding of prediction frames 2012 ,		10
48	Computationally efficient algorithms for predicting the file size of JPEG images subject to changes of quality factor and scaling 2008 ,		10
47	Fast H.264 to HEVC transcoder based on post-order traversal of quadtree structure 2015 ,		9
46	Video Error Correction Using Soft-Output and Hard-Output Maximum Likelihood Decoding Applied to an H.264 Baseline Profile. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2015 , 25, 1161-1174	6.4	8
45	Quality Prediction-Based Dynamic Content Adaptation Framework Applied to Collaborative Mobile Presentations. <i>IEEE Transactions on Mobile Computing</i> , 2013 , 12, 2024-2036	4.6	8
44	A novel approach for computing and pooling Structural SIMilarity index in the discrete wavelet domain 2009 ,		7
43	Pixel domain referenceless visual degradation detection and error concealment for mobile video 2011 ,		7
42	Checksum-Filtered List Decoding Applied to H.264 and H.265 Video Error Correction. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018 , 28, 1993-2006	6.4	6
41	Nonuniform perfect reconstruction filter banks over lattices with application to transmultiplexers. <i>IEEE Transactions on Signal Processing</i> , 1999 , 47, 1010-1023	4.8	6
40	A Novel Discrete Wavelet Domain Error-Based Image Quality Metric with Enhanced Perceptual Performance. <i>International Journal of Computer and Electrical Engineering</i> , 2012 , 390-395	0.1	6
39	Table-Free Multiple Bit-Error Correction Using the CRC Syndrome. <i>IEEE Access</i> , 2020 , 8, 102357-102372	3.5	5

38	A new image registration method robust to noise. <i>Multidimensional Systems and Signal Processing</i> , 2014 , 25, 601-609	1.8	5
37	An adaptive search ordering for rate-constrained successive elimination algorithms 2015 ,		5
36	2014 ,		5
35	A Maximum Likelihood Approach to Video Error Correction Applied to H.264 Decoding 2012 ,		5
34	Linear phase and symmetries for multidimensional FIR filters over lattices. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 1998 , 45, 473-481		5
33	Power Modeling for Video Streaming Applications on Mobile Devices. <i>IEEE Access</i> , 2020 , 8, 70234-70244	3.5	5
32	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
30	Multi-Objective Optimization in Dynamic Content Adaptation of Slide Documents. <i>IEEE Transactions on Services Computing</i> , 2017 , 10, 231-243	4.8	4
29	Robust H.264 Video Decoding Using Crc-Based Single Error Correction And Non-Desynchronizing Bits Validation 2020 ,		4
28	Efficient Near-Optimal Dynamic Content Adaptation Applied to JPEG Slides Presentations in Mobile Web Conferencing 2013 ,		4
27	Low-complexity computation of visual information fidelity in the discrete wavelet domain 2010 ,		4
26	K-Means Based Prediction of Transcoded JPEG File Size and Structural Similarity. <i>International Journal of Multimedia Data Engineering and Management</i> , 2012 , 3, 41-57	0.6	4
25	Efficient H.264-to-HEVC Transcoding Based on Motion Propagation and Post-Order Traversal of Coding Tree Units. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018 , 28, 3452-3466	6.4	3
24	A maximum likelihood approach to correcting transmission errors for joint source-channel decoding of H.264 coded video 2013 ,		3
23	Optimal quality-aware predictor-based adaptation of multimedia messages 2011 ,		3
22	Robust QoE-aware prediction-based dynamic content adaptation framework applied to slides documents in mobile Web conferencing. <i>Multimedia Tools and Applications</i> , 2015 , 74, 7883-7920	2.5	2
21	RDO cost modeling for low-complexity HEVC intra coding 2016 ,		2

20	Low complexity H.264 list decoder for enhanced quality real-time video over IP 2017 ,		2
19	Highly parallel HEVC motion estimation based on multiple temporal predictors and nested diamond search 2017 ,		2
18	Efficient Clustering-based Algorithm for Predicting File Size and Structural Similarity of Transcoded JPEG Images 2011 ,		2
17	Speeding up motion estimation in modern video encoders using approximate metrics and SIMD processors 2009 ,		2
16	An Image Visual Quality Assessment Method Based on SIFT Features. <i>Journal of Pattern Recognition Research</i> , 2013 , 8, 85-97		2
15	CU Size Decision for Low Complexity HEVC Intra Coding based on Deep Reinforcement Learning 2020 ,		2
14	Cost-Based Search Ordering for Rate-Constrained Motion Estimation Applied to HEVC. <i>IEEE Transactions on Broadcasting</i> , 2018 , 64, 922-932	4.7	2
13	Enhanced CRC-based correction of multiple errors with candidate validation. <i>Signal Processing: Image Communication</i> , 2021 , 99, 116475	2.8	2
12	Sub-partition reuse for fast optimal motion estimation in HEVC successive elimination algorithms 2016 ,		1
11	Massively parallel rate-constrained motion estimation using multiple temporal predictors in HEVC 2017 ,		1
10	Quality-aware predictor-based adaptation of still images for the multimedia messaging service. <i>Multimedia Tools and Applications</i> , 2014 , 72, 1841-1865	2.5	1
9	2007 ,		1
8	Residual packet loss rate analysis of 2-D parity forward error correction. <i>Signal Processing: Image Communication</i> , 2022 , 102, 116597	2.8	1
7	Multi-level rate-constrained successive elimination algorithm tailored to suboptimal motion estimation in HEVC. <i>Signal Processing: Image Communication</i> , 2020 , 81, 115719	2.8	1
6	CRC-Based Correction of Multiple Errors Using an Optimized Lookup Table. <i>IEEE Access</i> , 2022 , 10, 23931-23947	3.5	1
5	CRC-Based Multi-Error Correction of H.265 Encoded Videos in Wireless Communications 2021 ,		1
4	No-Reference Video Quality Assessment Using Distortion Learning And Temporal Attention. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
3	Geometrically constrained sub-pixel disparity estimation from stereo images of the retinal fundus. <i>IS&T International Symposium on Electronic Imaging</i> , 2016 , 2016, 1-8		1

- 2 A TOPSIS-based QoE model for adapted content selection of slide documents. *Multimedia Tools and Applications*, **2018**, 77, 26741-26768 2.5
- 1 Content Adaptation for the Mobile Internet **2005**, 205-254