Stephane Coulombe

List of Publications by Year in Descending Order

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	Residual packet loss rate analysis of 2-D parity forward error correction. *Signal Processing: Image Communication*, **2022**, 102, 116597	2.8	1
54	CRC-Based Correction of Multiple Errors Using an Optimized Lookup Table. *IEEE Access*, **2022**, 10, 23931-23947	3.5	1
53	No-Reference Video Quality Assessment Using Distortion Learning And Temporal Attention. *IEEE Access*, **2022**, 1-1	3.5	1
52	Enhanced CRC-based correction of multiple errors with candidate validation. *Signal Processing: Image Communication*, **2021**, 99, 116475	2.8	2
51	CRC-Based Multi-Error Correction of H.265 Encoded Videos in Wireless Communications **2021**,		1
50	Robust H.264 Video Decoding Using Crc-Based Single Error Correction And Non-Desynchronizing Bits Validation **2020**,		4
49	Table-Free Multiple Bit-Error Correction Using the CRC Syndrome. *IEEE Access*, **2020**, 8, 102357-102372	3.5	5
48	Multi-level rate-constrained successive elimination algorithm tailored to suboptimal motion estimation in HEVC. *Signal Processing: Image Communication*, **2020**, 81, 115719	2.8	1
47	CU Size Decision for Low Complexity HEVC Intra Coding based on Deep Reinforcement Learning **2020**,		2
46	Power Modeling for Video Streaming Applications on Mobile Devices. *IEEE Access*, **2020**, 8, 70234-70244	3.5	5
45	Fast HEVC Intra Mode Decision Based on RDO Cost Prediction. *IEEE Transactions on Broadcasting*, **2019**, 65, 109-122	4.7	19
44	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	6.4	3
43	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	6.4	6
42	A TOPSIS-based QoE model for adapted content selection of slide documents. *Multimedia Tools and Applications*, **2018**, 77, 26741-26768	2.5	
41	The Impact of H.264 Non-Desynchronizing Bits on Visual Quality and its Application to Robust Video Decoding **2018**,		5
40	Cost-Based Search Ordering for Rate-Constrained Motion Estimation Applied to HEVC. *IEEE Transactions on Broadcasting*, **2018**, 64, 922-932	4.7	2
39	Multi-Objective Optimization in Dynamic Content Adaptation of Slide Documents. *IEEE Transactions on Services Computing*, **2017**, 10, 231-243	4.8	4

38	Low complexity H.264 list decoder for enhanced quality real-time video over IP **2017**,		2
37	Massively parallel rate-constrained motion estimation using multiple temporal predictors in HEVC **2017**,		1
36	Highly parallel HEVC motion estimation based on multiple temporal predictors and nested diamond search **2017**,		2
35	Geometrically constrained sub-pixel disparity estimation from stereo images of the retinal fundus. *IS&T International Symposium on Electronic Imaging*, **2016**, 2016, 1-8		1
34	Sub-partition reuse for fast optimal motion estimation in HEVC successive elimination algorithms **2016**,		1
33	RDO cost modeling for low-complexity HEVC intra coding **2016**,		2
32	Coding unit splitting early termination for fast HEVC intra coding based on global and directional gradients **2016**,		5
31	Fast HEVC Intra Mode Decision Based on Edge Detection and SATD Costs Classification **2015**,		27
30	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	6.4	8
29	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	2.5	2
28	Fast H.264 to HEVC transcoder based on post-order traversal of quadtree structure **2015**,		9
27	An adaptive search ordering for rate-constrained successive elimination algorithms **2015**,		5
26	A new image registration method robust to noise. *Multidimensional Systems and Signal Processing*, **2014**, 25, 601-609	1.8	5
25	**2014**,		5
24	Quality-aware predictor-based adaptation of still images for the multimedia messaging service. *Multimedia Tools and Applications*, **2014**, 72, 1841-1865	2.5	1
23	Quality Prediction-Based Dynamic Content Adaptation Framework Applied to Collaborative Mobile Presentations. *IEEE Transactions on Mobile Computing*, **2013**, 12, 2024-2036	4.6	8
22	Efficient Near-Optimal Dynamic Content Adaptation Applied to JPEG Slides Presentations in Mobile Web Conferencing **2013**,		4
21	A novel discrete wavelet transform framework for full reference image quality assessment. *Signal, Image and Video Processing*, **2013**, 7, 559-573	1.6	18

20	A maximum likelihood approach to correcting transmission errors for joint source-channel decoding of H.264 coded video **2013**,		3
19	An Image Visual Quality Assessment Method Based on SIFT Features. *Journal of Pattern Recognition Research*, **2013**, 8, 85-97		2
18	A multi-frame and multi-slice H.264 parallel video encoding approach with simultaneous encoding of prediction frames **2012**,		10
17	A Maximum Likelihood Approach to Video Error Correction Applied to H.264 Decoding **2012**,		5
16	K-Means Based Prediction of Transcoded JPEG File Size and Structural Similarity. *International Journal of Multimedia Data Engineering and Management*, **2012**, 3, 41-57	0.6	4
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	0.1	6
14	Optimal quality-aware predictor-based adaptation of multimedia messages **2011**,		3
13	Efficient Clustering-based Algorithm for Predicting File Size and Structural Similarity of Transcoded JPEG Images **2011**,		2
12	Pixel domain referenceless visual degradation detection and error concealment for mobile video **2011**,		7
11	Low-complexity computation of visual information fidelity in the discrete wavelet domain **2010**,		4
10	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, 712-21	8.7	17
9	A novel approach for computing and pooling Structural SIMilarity index in the discrete wavelet domain **2009**,		7
8	Speeding up motion estimation in modern video encoders using approximate metrics and SIMD processors **2009**,		2
7	Quality-aware selection of quality factor and scaling parameters in JPEG image transcoding **2009**,		12
6	Computationally efficient algorithms for predicting the file size of JPEG images subject to changes of quality factor and scaling **2008**,		10
5	**2007**,		1
4	Content Adaptation for the Mobile Internet **2005**, 205-254		
3	Multimedia adaptation for the multimedia messaging service **2004**, 42, 120-126		19

List of Publications

2	Nonuniform perfect reconstruction filter banks over lattices with application to transmultiplexers. *IEEE Transactions on Signal Processing*, **1999**, 47, 1010-1023	4.8	6
1	Linear phase and symmetries for multidimensional FIR filters over lattices. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **1998**, 45, 473-481		5