Otoniel Lopez-Granado

List of Publications by Year
in descending order

61	364	1162367 8	940134 16
papers	citations	h-index	g-index

62	62	62	354
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Monitoring Pest Insect Traps by Means of Low-Power Image Sensor Technologies. Sensors, 2012, 12, 15801-15819.	2.1	52
2	On the Design of a Bioacoustic Sensor for the Early Detection of the Red Palm Weevil. Sensors, 2013, 13, 1706-1729.	2.1	49
3	Slice-based parallel approach for HEVC encoder. Journal of Supercomputing, 2015, 71, 1882-1892.	2.4	23
4	Parallel strategies for 2D Discrete Wavelet Transform in shared memory systems and GPUs. Journal of Supercomputing, 2013, 64, 4-16.	2.4	21
5	Quality assessment metrics vs. PSNR under packet lossscenarios in manet wireless networks. , 2007, , .		20
6	Design and implementation of an efficient hardware integer motion estimator for an HEVC video encoder. Journal of Real-Time Image Processing, 2019, 16, 547-557.	2.2	20
7	Impact of Programming Exposure on the Development of Computational Thinking Capabilities: An Empirical Study. IEEE Access, 2020, 8, 72316-72325.	2.6	19
8	A Study of Objective Quality Assessment Metrics for Video Codec Design and Evaluation. , 2006, , .		16
9	Evaluating HEVC video delivery in VANET scenarios. , 2013, , .		13
10	Parallel strategies analysis over the HEVC encoder. Journal of Supercomputing, 2014, 70, 671-683.	2.4	10
11	Source Coding Options to Improve HEVC Video Streaming in Vehicular Networks. Sensors, 2018, 18, 3107.	2.1	9
12	E-LTW: An enhanced LTW encoder with sign coding and precise rate control. , 2009, , .		8
13	Fast 3D wavelet transform on multicore and many-core computing platforms. Journal of Supercomputing, 2013, 65, 848-865.	2.4	8
14	M-LTW: A fast and efficient intra video codec. Signal Processing: Image Communication, 2008, 23, 637-648.	1.8	6
15	Distributed memory parallel approaches for HEVC encoder. Journal of Supercomputing, 2017, 73, 164-175.	2.4	6
16	A fast 3D-DWT video encoder with reduced memory usage suitable for IPTV. , 2010, , .		5
17	Modeling video streaming over VANETs. , 2012, , .		5
18	Rate Control Algorithms for Non-Embedded Wavelet-Based Image Coding. Journal of Signal Processing Systems, 2012, 68, 203-216.	1.4	5

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19	Heterogeneous CPU plus GPU approaches for HEVC. Journal of Supercomputing, 2019, 75, 1215-1226.	2.4	5
20	Impact of rate control tools on very fast non-embedded wavelet image encoders. , 2007, , .		4
21	Error Resilient Coding Techniques for Video Delivery over Vehicular Networks. Sensors, 2018, 18, 3495.	2.1	4
22	Performance Overview of the Latest Video Coding Proposals: HEVC, JEM and VVC. Journal of Imaging, 2021, 7, 39.	1.7	4
23	A Heuristic Bitrate Control for Non-embedded Wavelet Image Encoders. Proceedings ELMAR, 2006, , .	0.0	3
24	Analyzing the Impact of Commercial Video Encoders in Remotely Teleoperated Mobile Robots through IEEE 802.11 Wireless Network Technologies. Industrial Informatics, 2009 INDIN 2009 7th IEEE International Conference on, 2007, , .	0.0	3
25	Low-complexity 3D-DWT video encoder applicable to IPTV. Signal Processing: Image Communication, 2011, 26, 358-369.	1.8	3
26	On the Performance of Video Quality Assessment Metrics under Different Compression and Packet Loss Scenarios. Scientific World Journal, The, 2014, 2014, 1-18.	0.8	3
27	Protection of HEVC Video Delivery in Vehicular Networks with RaptorQ Codes. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	3
28	Simulation Framework for Evaluating Video Delivery Services Over Vehicular Networks. , 2018, , .		3
29	Frame-Based and Subpicture-Based Parallelization Approaches of the HEVC Video Encoder. Applied Sciences (Switzerland), 2018, 8, 854.	1.3	3
30	A Simulation Tool for Evaluating Video Streaming Architectures in Vehicular Network Scenarios. Electronics (Switzerland), 2020, 9, 1970.	1.8	3
31	Evaluating the Use of QoS for Video Delivery in Vehicular Networks. , 2020, , .		3
32	A General Frame-by-Frame Wavelet Transform Algorithm for a Three-Dimensional Analysis with Reduced Memory Usage. Proceedings International Conference on Image Processing, 2007, , .	0.0	2
33	Simulated Annealing Algorithm for 2D Image Compression. , 2012, , .		2
34	MPCM: a hardware coder for super slow motion video sequences. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.0	2
35	Synchronous and asynchronous HEVC parallel encoder versions based on a GOP approach. Advances in Engineering Software, 2016, 101, 37-49.	1.8	2
36	Performance analysis of frame partitioning in parallel HEVC encoders. Journal of Supercomputing, 2017, 73, 543-556.	2.4	2

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37	Shared Memory Tile-Based vs Hybrid Memory GOP-Based Parallel Algorithms for HEVC Encoder. Lecture Notes in Computer Science, 2016, , 521-528.	1.0	2
38	GPU-based 3D lower tree wavelet video encoder. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.0	1
39	Enhancing LTW image encoder with perceptual coding and GPU-optimized 2D-DWT transform. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.0	1
40	Evaluation of an HEVC hardware IME module using a SoC platform. , 2016, , .		1
41	GPU-Based Heterogeneous Coding Architecture for HEVC. Lecture Notes in Computer Science, 2016, , 529-536.	1.0	1
42	Impact of dead zone size on the rate/distortion performance of wavelet-based perceptual image encoders. , 2016, , .		1
43	Influence of Dead Zone Quantization Parameters in the R/D Performance of Wavelet-Based Image Encoders. , 2017, , .		1
44	GPU-based HEVC intra-prediction module. Journal of Supercomputing, 2017, 73, 455-468.	2.4	1
45	A highly scalable parallel encoder version of the emergent JEM video encoder. Journal of Supercomputing, 2019, 75, 1429-1442.	2.4	1
46	Low Bit-Rate Video Coding with 3D Lower Trees (3D-LTW). Lecture Notes in Computer Science, 2010, , 256-263.	1.0	1
47	Improving image compression through the use of evolutionary computing algorithms. WIT Transactions on Information and Communication Technologies, 2013, , .	0.0	1
48	On the Use of Genetic Algorithms to Improve Wavelet Sign Coding Performance. Lecture Notes in Computer Science, 2011, , 505-512.	1.0	1
49	M-LTW: A Fast and Efficient Non-embedded Intra Video Codec. , 2007, , 600-608.		1
50	A low complexity wavelet based depth map encoder for low bit rate 3D video applications. , 2012, , .		0
51	Real-time multimedia coding and transmission. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.0	0
52	Multicore-based 3D-DWT video encoder. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.0	0
53	Tuning an Iterated Local Search Algorithm for Wavelet Sign Coding for 2D Image Compression. , 2013, , .		0
54	Perceptual Intra Video Encoder for High-Quality High-Definition Content. , 2013, , .		0

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55	3D Wavelet Encoder for Depth Map Data Compression. , 2013, , .		0
56	Optimizing the image R/D coding performance by tuning quantization parameters. Journal of Visual Communication and Image Representation, 2017, 49, 274-282.	1.7	0
57	A General Model for the Design of Efficient Sign-Coding Tools for Wavelet-Based Encoders. Electronics (Switzerland), 2020, 9, 1899.	1.8	0
58	Analysis of the Perceptual Quality Performance of Different HEVC Coding Tools. IEEE Access, 2021, 9, 37510-37522.	2.6	0
59	Applying a Genetic Algorithm Solution to Improve Compression of Wavelet Coefficient Sign. Lecture Notes in Computer Science, 2015, , 276-286.	1.0	0
60	Load Balancing Strategies for Slice-Based Parallel Versions of JEM Video Encoder. Algorithms, 2021, 14, 320.	1.2	0
61	Low-Complexity TTCM Based Distributed Video Coding Architecture. , 2007, , 841-852.		0