

Joao Ascenso

List of Publications by Year in descending order

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99
papers

1,626
citations

758635

12
h-index

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23
g-index

102
all docs

102
docs citations

102
times ranked

735
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving Transform Domain Wyner-Ziv Video Coding Performance. , 0, , .		111
2	Content Adaptive Wyner-ZIV Video Coding Driven by Motion Activity. , 2006, , .		97
3	Refining Side Information for Improved Transform Domain Wyner-Ziv Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1327-1341.	5.6	80
4	Motion compensated refinement for low complexity pixel based distributed video coding. , 0, , .		79
5	Graph-Based Static 3D Point Clouds Geometry Coding. IEEE Transactions on Multimedia, 2019, 21, 284-299.	5.2	71
6	Evaluating a feedback channel based transform domain Wynerâ€™Ziv video codec. Signal Processing: Image Communication, 2008, 23, 269-297.	1.8	70
7	Studying Temporal Correlation Noise Modeling for Pixel Based Wyner-Ziv Video Coding. , 2006, , .		64
8	Subjective and objective quality evaluation of 3D point cloud denoising algorithms. , 2017, , .		59
9	Evaluation of low-complexity visual feature detectors and descriptors. , 2013, , .		55
10	Adaptive Hash-Based Side Information Exploitation for Efficient Wyner-Ziv Video Coding. , 2007, , .		51
11	Extrapolating Side Information for Low-Delay Pixel-Domain Distributed Video Coding. Lecture Notes in Computer Science, 2006, , 16-21.	1.0	43
12	Rate-accuracy optimization of binary descriptors. , 2013, , .		37
13	A Generalized Hausdorff Distance Based Quality Metric for Point Cloud Geometry. , 2020, , .		37
14	Holographic Data Coding: Benchmarking and Extending HEVC With Adapted Transforms. IEEE Transactions on Multimedia, 2018, 20, 282-297.	5.2	36
15	Mahalanobis Based Point to Distribution Metric for Point Cloud Geometry Quality Evaluation. IEEE Signal Processing Letters, 2020, 27, 1350-1354.	2.1	36
16	Subjective and objective quality evaluation of compressed point clouds. , 2017, , .		34
17	Intra Mode Decision Based on Spatio-Temporal Cues in Pixel Domain Wyner-ZIV Video Coding. , 0, , .		30
18	Statistical motion learning for improved transform domain Wynerâ€™Ziv video coding. IET Image Processing, 2010, 4, 28.	1.4	30

#	ARTICLE	IF	CITATIONS
19	A flexible side information generation framework for distributed video coding. Multimedia Tools and Applications, 2010, 48, 381-409.	2.6	26
20	Exploiting Spatial Redundancy in Pixel Domain Wyner-Ziv Video Coding. , 2006, , .		24
21	Coding binary local features extracted from video sequences. , 2014, , .		21
22	Distributed Video Coding with multiple side information. , 2009, , .		20
23	Saliency-driven omnidirectional imaging adaptive coding: Modeling and assessment. , 2017, , .		19
24	Lenslet Light Field Image Coding: Classifying, Reviewing and Evaluating. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 339-354.	5.6	19
25	Advanced side information creation techniques and framework for Wyner-Ziv video coding. Journal of Visual Communication and Image Representation, 2008, 19, 600-613.	1.7	18
26	Wyner-Ziv video coding: A review of the early architectures and further developments. , 2008, , .		17
27	Design and performance of a novel low-density parity-check code for distributed video coding. , 2008, , .		15
28	Low complexity intra mode selection for efficient distributed video coding. , 2009, , .		15
29	Point cloud coding: A privileged view driven by a classification taxonomy. Signal Processing: Image Communication, 2020, 85, 115862.	1.8	15
30	Studying the GOP Size Impact on the Performance of a Feedback Channel-Based Wyner-Ziv Video Codec. , 2007, , 801-815.		15
31	Lossless compression of binary image descriptors for visual sensor networks. , 2013, , .		14
32	Improving enhancement layer merge mode for HEVC scalable extension. , 2015, , .		14
33	Rate-Distortion Driven Adaptive Partitioning for Octree-Based Point Cloud Geometry Coding. , 2018, , .		14
34	Improving Psnr-Based Quality Metrics Performance For Point Cloud Geometry. , 2020, , .		14
35	Adaptive Multi-level Triangle Soup for Geometry-based Point Cloud Coding. , 2019, , .		13
36	Side information creation for efficient Wyner-Ziv video coding: Classifying and reviewing. Signal Processing: Image Communication, 2013, 28, 689-726.	1.8	12

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37	HEVC backward compatible scalability: A low encoding complexity distributed video coding based approach. Signal Processing: Image Communication, 2015, 33, 51-70.	1.8	12
38	Improving SHVC performance with a joint layer coding mode. , 2016, , .		12
39	Perceptual Analysis of Perspective Projection for Viewport Rendering in 360° Images. , 2017, , .		12
40	Hybrid Distributed Video Coding Using SCA Codes. , 2006, , .		11
41	Adaptive deblocking filter for transform domain Wyner-Ziv video coding. IET Image Processing, 2009, 3, 315-328.	1.4	11
42	Learning based decoding approach for improved Wyner-Ziv video coding. , 2012, , .		11
43	Digital holography: Benchmarking coding standards and representation formats. , 2016, , .		11
44	Adaptive Scalable Video Coding: An HEVC-Based Framework Combining the Predictive and Distributed Paradigms. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1761-1776.	5.6	11
45	Hybrid Octree-Plane Point Cloud Geometry Coding. , 2019, , .		11
46	A Point-to-Distribution Joint Geometry and Color Metric for Point Cloud Quality Assessment. , 2021, , .		11
47	Enabling visual analysis in wireless sensor networks. , 2014, , .		10
48	Epipolar based light field key-location detector. , 2017, , .		9
49	Blind Quality Assessment of 3-D Synthesized Views Based on Hybrid Feature Classes. IEEE Transactions on Multimedia, 2019, 21, 1737-1749.	5.2	9
50	Automatic Text Extraction in Digital Video Based on Motion Analysis. Lecture Notes in Computer Science, 2004, , 588-596.	1.0	8
51	Hierarchical motion estimation for side information creation in Wyner-Ziv video coding. , 2008, , .		8
52	Low complexity deblocking filter perceptual optimization for the HEVC codec. , 2011, , .		8
53	Objective Assessment of Perceived Geometric Distortions in Viewport Rendering of 360° Images. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 49-63.	7.3	8
54	Wyner-Ziv Stereo Video Coding using a Side Information Fusion Approach. , 2007, , .		7

#	ARTICLE	IF	CITATIONS
55	SIFT-Based Homographies for Efficient Multiview Distributed Visual Sensing. IEEE Sensors Journal, 2015, 15, 2643-2656.	2.4	7
56	Adaptive Plane Projection for Video-Based Point Cloud Coding. , 2019, , .		7
57	Complexity efficient stopping criterion for LDPC based distributed video coding. , 2009, , .		7
58	Distributed Video Coding: Basics, Codecs, and Performance. , 2009, , 189-245.		6
59	Improved matching criterion for frame rate upconversion with trilateral filtering. Electronics Letters, 2013, 49, 106-107.	0.5	6
60	Epipolar plane image based rendering for 3D video coding. , 2015, , .		6
61	Improved Patch Packing for the MPEG V-PCC Standard. , 2019, , .		6
62	Clustering based binary descriptor coding for efficient transmission in visual sensor networks. , 2013, , .		5
63	Optimal reconstruction for a HEVC backward compatible distributed scalable video codec. , 2014, , .		5
64	Multi-view distributed source coding of binary features for visual sensor networks. , 2016, , .		5
65	Lenslet Light Field Panorama Creation: A Sub-Aperture Image Stitching Approach. , 2018, , .		5
66	Drift reduction for a H.264/AVC fine grain scalability with motion compensation architecture. , 0, , .		4
67	A denoising approach for iterative side information creation in distributed video coding. , 2011, , .		4
68	Packet-header based no-reference quality metrics for H.264/AVC video transmission. , 2012, , .		4
69	A robust fusion method for multiview distributed video coding. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.0	4
70	Descriptor-based adaptive tracking-by-detection for visual sensor networks. , 2015, , .		4
71	Hybrid Point Cloud Geometry Coding Using Planes and Octree Representation Models. , 2019, , .		4
72	Visual monitoring of High-Sea fishing activities using deep learning-based image processing. Multimedia Tools and Applications, 2020, 79, 22131-22156.	2.6	4

#	ARTICLE	IF	CITATIONS
73	Improving scalable video coding performance with decoder side information. , 2013, , .		3
74	Local feature selection for efficient binary descriptor coding. , 2014, , .		3
75	Objective Assessment of Line Distortions in Viewport Rendering of 360° Images. , 2018, , .		3
76	Lenslet Light Field Imaging Scalable Coding. , 2018, , .		3
77	Subjective and objective quality assessment of omnidirectional video. , 2018, , .		3
78	Improving predictive video coding performance with decoder side information. , 2012, , .		2
79	Perceptually driven video error protection using a distributed source coding approach. Signal Processing: Image Communication, 2014, 29, 1-22.	1.8	2
80	Content-Aware Perspective Projection Optimization for Viewport Rendering of 360° Images. , 2019, , .		2
81	Augmented LDPC graph for distributed video coding with multiple side information. , 2011, , .		1
82	Evaluating multi-view plus depth coding solutions for 3D video scenarios. , 2012, , .		1
83	Perspective transform motion modeling for improved side information creation. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.0	1
84	Correlation modeling for a distributed scalable video codec based on the HEVC standard. , 2014, , .		1
85	Multi-view distributed coding and selection of local binary features. , 2016, , .		1
86	Lisbon Landmark Lenslet Light Field Dataset. , 2017, , .		1
87	Compression efficiency analysis of Wyner-Ziv video coding with motion compensated side information interpolation. Proceedings of SPIE, 2010, , .	0.8	0
88	Improved B-slices DIRECT mode coding using motion side information. , 2012, , .		0
89	Structural based side information creation with improved matching criteria for Wyner-Ziv video coding. , 2012, , .		0
90	Statistical reconstruction for predictive video coding. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
91	H.264/AVC backward compatible bit-depth scalable video coding. , 2014, , .		0
92	Stereo Based Tracking-by-Detection for Visual Sensor Networks. , 2015, , .		0
93	GreenEyes: Networked energy-aware visual analysis. , 2015, , .		0
94	Boosting decoding quality performance in DASH-based streaming frameworks. , 2016, , .		0
95	Rate-Accuracy Optimization of Deep Convolutional Neural Network Models. , 2017, , .		0
96	Full Reference Quality Assessment of DIBR-Based Synthesized Images. , 2018, , .		0
97	CONSTANT BITRATE CONTROL FOR A DISTRIBUTED VIDEO CODING SYSTEM. , 2008, , .		0
98	Evolution and Challenges in Multimedia Representation Technologies. , 2007, , 275-294.		0
99	Object-Based Geometric Distortion Metric for Viewport Rendering of 360° Images. IEEE Access, 2022, 10, 13827-13843.	2.6	0