Joao Ascenso

List of Publications by Year
in descending order

99 papers	1,626 citations	758635 12 h-index	642321 23 g-index
102 all docs	102 docs citations	102 times ranked	735 citing authors

#	Article	IF	Citations
1	Object-Based Geometric Distortion Metric for Viewport Rendering of 360° Images. IEEE Access, 2022, 10, 13827-13843.	2.6	0
2	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
3	A Point-to-Distribution Joint Geometry and Color Metric for Point Cloud Quality Assessment. , 2021, , .		11
4	Mahalanobis Based Point to Distribution Metric for Point Cloud Geometry Quality Evaluation. IEEE Signal Processing Letters, 2020, 27, 1350-1354.	2.1	36
5	Improving Psnr-Based Quality Metrics Performance For Point Cloud Geometry. , 2020, , .		14
6	Point cloud coding: A privileged view driven by a classification taxonomy. Signal Processing: Image Communication, 2020, 85, 115862.	1.8	15
7	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
8	A Generalized Hausdorff Distance Based Quality Metric for Point Cloud Geometry. , 2020, , .		37
9	Visual monitoring of High-Sea fishing activities using deep learning-based image processing. Multimedia Tools and Applications, 2020, 79, 22131-22156.	2.6	4
10	Graph-Based Static 3D Point Clouds Geometry Coding. IEEE Transactions on Multimedia, 2019, 21, 284-299.	5.2	71
11	Content-Aware Perspective Projection Optimization for Viewport Rendering of 360° Images. , 2019, , .		2
12	Hybrid Point Cloud Geometry Coding Using Planes and Octree Representation Models. , 2019, , .		4
13	Adaptive Plane Projection for Video-Based Point Cloud Coding. , 2019, , .		7
14	Hybrid Octree-Plane Point Cloud Geometry Coding. , 2019, , .		11
15	Improved Patch Packing for the MPEG V-PCC Standard. , 2019, , .		6
16	Adaptive Multi-level Triangle Soup for Geometry-based Point Cloud Coding. , 2019, , .		13
17	Blind Quality Assessment of 3-D Synthesized Views Based on Hybrid Feature Classes. IEEE Transactions on Multimedia, 2019, 21, 1737-1749.	5.2	9
18	Holographic Data Coding: Benchmarking and Extending HEVC With Adapted Transforms. IEEE Transactions on Multimedia, 2018, 20, 282-297.	5.2	36

#	Article	IF	Citations
19	Objective Assessment of Line Distortions in Viewport Rendering of 360Âº Images. , 2018, , .		3
20	Lenslet Light Field Imaging Scalable Coding. , 2018, , .		3
21	Lenslet Light Field Panorama Creation: A Sub-Aperture Image Stitching Approach. , 2018, , .		5
22	Full Reference Quality Assessment of DIBR-Based Synthesized Images. , 2018, , .		0
23	Rate-Distortion Driven Adaptive Partitioning for Octree-Based Point Cloud Geometry Coding. , 2018, , .		14
24	Subjective and objective quality assessment of omnidirectional video. , 2018, , .		3
25	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
26	Subjective and objective quality evaluation of 3D point cloud denoising algorithms. , 2017, , .		59
27	Lisbon Landmark Lenslet Light Field Dataset. , 2017, , .		1
28	Saliency-driven omnidirectional imaging adaptive coding: Modeling and assessment. , 2017, , .		19
29	Rate-Accuracy Optimization of Deep Convolutional Neural Network Models. , 2017, , .		0
30	Perceptual Analysis of Perspective Projection for Viewport Rendering in 360Â° Images. , 2017, , .		12
31	Subjective and objective quality evaluation of compressed point clouds. , 2017, , .		34
32	Epipolar based light field key-location detector. , 2017, , .		9
33	Improving SHVC performance with a joint layer coding mode. , 2016, , .		12
34	Boosting decoding quality performance in DASH-based streaming frameworks. , 2016, , .		0
35	Multi-view distributed source coding of binary features for visual sensor networks. , 2016, , .		5
36	Digital holography: Benchmarking coding standards and representation formats. , 2016, , .		11

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37	Multi-view distributed coding and selection of local binary features. , 2016, , .		1
38	Stereo Based Tracking-by-Detection for Visual Sensor Networks. , 2015, , .		0
39	SIFT-Based Homographies for Efficient Multiview Distributed Visual Sensing. IEEE Sensors Journal, 2015, 15, 2643-2656.	2.4	7
40	GreenEyes: Networked energy-aware visual analysis. , 2015, , .		0
41	Improving enhancement layer merge mode for HEVC scalable extension. , 2015, , .		14
42	Epipolar plane image based rendering for 3D video coding. , 2015, , .		6
43	Descriptor-based adaptive tracking-by-detection for visual sensor networks. , 2015, , .		4
44	HEVC backward compatible scalability: A low encoding complexity distributed video coding based approach. Signal Processing: Image Communication, 2015, 33, 51-70.	1.8	12
45	Enabling visual analysis in wireless sensor networks. , 2014, , .		10
46	Correlation modeling for a distributed scalable video codec based on the HEVC standard. , 2014, , .		1
47	Local feature selection for efficient binary descriptor coding. , 2014, , .		3
48	Statistical reconstruction for predictive video coding. , 2014, , .		0
49	H.264/AVC backward compatible bit-depth scalable video coding. , 2014, , .		0
50	A robust fusion method for multiview distributed video coding. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.0	4
51	Perceptually driven video error protection using a distributed source coding approach. Signal Processing: Image Communication, 2014, 29, 1-22.	1.8	2
52	Coding binary local features extracted from video sequences. , 2014, , .		21
53	Optimal reconstruction for a HEVC backward compatible distributed scalable video codec. , 2014, , .		5
54	Side information creation for efficient Wynerâ€"Ziv video coding: Classifying and reviewing. Signal Processing: Image Communication, 2013, 28, 689-726.	1.8	12

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55	Lossless compression of binary image descriptors for visual sensor networks. , 2013, , .		14
56	Perspective transform motion modeling for improved side information creation. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.0	1
57	Improving scalable video coding performance with decoder side information. , 2013, , .		3
58	Improved matching criterion for frame rate upconversion with trilateral filtering. Electronics Letters, 2013, 49, 106-107.	0.5	6
59	Rate-accuracy optimization of binary descriptors. , 2013, , .		37
60	Clustering based binary descriptor coding for efficient transmission in visual sensor networks. , 2013, , .		5
61	Evaluation of low-complexity visual feature detectors and descriptors. , 2013, , .		55
62	Improving predictive video coding performance with decoder side information. , 2012, , .		2
63	Evaluating multi-view plus depth coding solutions for 3D video scenarios. , 2012, , .		1
64	Packet-header based no-reference quality metrics for H.264/AVC video transmission. , 2012, , .		4
65	Improved B-slices DIRECT mode coding using motion side information. , 2012, , .		0
66	Structural based side information creation with improved matching criteria for Wyner-Ziv video coding. , 2012, , .		0
67	Learning based decoding approach for improved Wyner-Ziv video coding. , 2012, , .		11
68	Augmented LDPC graph for distributed video coding with multiple side information. , 2011, , .		1
69	Low complexity deblocking filter perceptual optimization for the HEVC codec. , 2011, , .		8
70	A denoising approach for iterative side information creation in distributed video coding. , 2011, , .		4
71	Compression efficiency analysis of Wyner-Ziv video coding with motion compensated side information interpolation. Proceedings of SPIE, 2010, , .	0.8	0
72	A flexible side information generation framework for distributed video coding. Multimedia Tools and Applications, 2010, 48, 381-409.	2.6	26

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73	Statistical motion learning for improved transform domain Wynerâ€"Ziv video coding. IET Image Processing, 2010, 4, 28.	1.4	30
74	Distributed Video Coding: Basics, Codecs, and Performance. , 2009, , 189-245.		6
75	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
76	Distributed Video Coding with multiple side information. , 2009, , .		20
77	Low complexity intra mode selection for efficient distributed video coding. , 2009, , .		15
78	Adaptive deblocking filter for transform domain Wynerâ€"Ziv video coding. IET Image Processing, 2009, 3, 315-328.	1.4	11
79	Complexity efficient stopping criterion for LDPC based distributed video coding. , 2009, , .		7
80	Advanced side information creation techniques and framework for Wynerâ€"Ziv video coding. Journal of Visual Communication and Image Representation, 2008, 19, 600-613.	1.7	18
81	Evaluating a feedback channel based transform domain Wynerâ€"Ziv video codec. Signal Processing: Image Communication, 2008, 23, 269-297.	1.8	70
82	Wyner-Ziv video coding: A review of the early architectures and further developments. , 2008, , .		17
83	Design and performance of a novel low-density parity-check code for distributed video coding. , 2008, , .		15
84	Hierarchical motion estimation for side information creation in Wyner-Ziv video coding. , 2008, , .		8
85	CONSTANT BITRATE CONTROL FOR A DISTRIBUTED VIDEO CODING SYSTEM. , 2008, , .		0
86	Adaptive Hash-Based Side Information Exploitation for Efficient Wyner-Ziv Video Coding. , 2007, , .		51
87	Wyner-Ziv Stereo Video Coding using a Side Information Fusion Approach. , 2007, , .		7
88	Studying the GOP Size Impact on the Performance of a Feedback Channel-Based Wyner-Ziv Video Codec. , 2007, , 801-815.		15
89	Evolution and Challenges in Multimedia Representation Technologies. , 2007, , 275-294.		0
90	Studying Temporal Correlation Noise Modeling for Pixel Based Wyner-Ziv Video Coding. , 2006, , .		64

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91	Hybrid Distributed Video Coding Using SCA Codes. , 2006, , .		11
92	Exploiting Spatial Redundancy in Pixel Domain Wyner-Ziv Video Coding. , 2006, , .		24
93	Content Adaptive Wyner-ZIV Video Coding Driven by Motion Activity. , 2006, , .		97
94	Extrapolating Side Information for Low-Delay Pixel-Domain Distributed Video Coding. Lecture Notes in Computer Science, 2006, , 16-21.	1.0	43
95	Automatic Text Extraction in Digital Video Based on Motion Analysis. Lecture Notes in Computer Science, 2004, , 588-596.	1.0	8
96	Drift reduction for a H.264/AVC fine grain scalability with motion compensation architecture. , 0, , .		4
97	Motion compensated refinement for low complexity pixel based distributed video coding. , 0, , .		79
98	Improving Transform Domain Wyner-Ziv Video Coding Performance. , 0, , .		111
99	Intra Mode Decision Based on Spatio-Temporal Cues in Pixel Domain Wyner-ZIV Video Coding. , 0, , .		30