

# Pedro Cuenca

## List of Publications by Year in descending order

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121  
papers

791  
citations

687220

13  
h-index

713332

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127  
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127  
docs citations

127  
times ranked

443  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-layer architecture for adaptive video multicast streaming over multirate wireless LANs. IEEE Journal on Selected Areas in Communications, 2007, 25, 699-711.	9.7	91
2	A Fast MB Mode Decision Algorithm for MPEG-2 to H.264 P-Frame Transcoding. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 172-185.	5.6	38
3	Fast intra mode decision algorithm based on texture orientation detection in HEVC. Signal Processing: Image Communication, 2016, 44, 12-28.	1.8	33
4	Fast partitioning algorithm for HEVC Intra frame coding using machine learning. , 2014, , .		32
5	Low-Complexity Heterogeneous Video Transcoding Using Data Mining. IEEE Transactions on Multimedia, 2008, 10, 286-299.	5.2	28
6	Adaptive Fast Quadtree Level Decision Algorithm for H.264 to HEVC Video Transcoding. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 154-168.	5.6	27
7	Fast CU partitioning algorithm for HEVC intra coding using data mining. Multimedia Tools and Applications, 2017, 76, 861-894.	2.6	25
8	ARSM: a cross-layer auto rate selection multicast mechanism for multi-rate wireless LANs. IET Communications, 2007, 1, 893.	1.5	24
9	Very low complexity MPEG-2 to H.264 transcoding using machine learning. , 2006, , .		23
10	Motion-based temporal transcoding from H.264/AVC-to-SVC in baseline profile. IEEE Transactions on Consumer Electronics, 2011, 57, 239-246.	3.0	23
11	An MPEG-2 to H.264 Video Transcoder in the Baseline Profile. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 763-768.	5.6	20
12	Fast quadtree level decision algorithm for H.264/HEVC transcoder. , 2014, , .		18
13	On the capabilities of IEEE 802.11e for multimedia communications over heterogeneous 802.11/802.11e WLANs. Telecommunication Systems, 2007, 36, 27-38.	1.6	17
14	Performance evaluation of cell discarding mechanisms for the distribution of VBR MPEG-2 video over ATM networks. IEEE Transactions on Broadcasting, 1998, 44, 206-215.	2.5	15
15	B-EDCA: A QoS mechanism for multimedia communications over heterogeneous 802.11/802.11e WLANs. Computer Communications, 2008, 31, 3905-3921.	3.1	15
16	Wyner-Ziv to H.264 video transcoder for low cost video encoding. IEEE Transactions on Consumer Electronics, 2009, 55, 1453-1461.	3.0	15
17	Accelerating HEVC using heterogeneous platforms. Journal of Supercomputing, 2015, 71, 613-628.	2.4	14
18	Loss-resilient ATM protocol architecture for MPEG-2 video communications. IEEE Journal on Selected Areas in Communications, 2000, 18, 1075-1086.	9.7	13

#	ARTICLE	IF	CITATIONS
19	Rate-distortion/complexity analysis of HEVC, VVC and AV1 video codecs. Multimedia Tools and Applications, 2020, 79, 29621-29638.	2.6	13
20	An efficient protocol architecture for error-resilient MPEG-2 video communications over ATM networks. IEEE Transactions on Broadcasting, 1999, 45, 129-140.	2.5	12
21	Packing scheme for layered coding MPEG-2 video transmission over ATM based networks. , 0, , .		10
22	Wyner-Ziv to H.264 video transcoder. , 2009, , .		10
23	An iterative side information refinement technique for transform domain Distributed Video Coding. , 2009, , .		10
24	Adaptive inter CU partitioning based on a look-ahead stage for HEVC. Signal Processing: Image Communication, 2019, 76, 97-108.	1.8	9
25	Speeding-Up the Macroblock Partition Mode Decision in MPEG-2/H.264 Transcoding. , 2006, , .		8
26	ARSM: Auto Rate Selection Multicast Mechanism for Multi-rate Wireless LANs. Lecture Notes in Computer Science, 2006, , 239-250.	1.0	8
27	Limitations and capabilities of QoS in IEEE 802.11 WLANs. , 0, , .		7
28	QoS mechanisms for multimedia communications over TDMA/TDD WLANs. Computer Communications, 2006, 29, 2721-2735.	3.1	7
29	Video encoding and transcoding using machine learning. , 2008, , .		7
30	Video adaptation for mobile digital television. , 2010, , .		7
31	Combining open &#x2014; And closed-loop architectures for H.264/AVC-TO-SVC transcoding. , 2011, , .		7
32	Low-complexity heterogeneous architecture for H.264/HEVC video transcoding. Journal of Real-Time Image Processing, 2016, 12, 311-327.	2.2	7
33	Techniques to increase MPEG-2 error resilience in the VBR video transmission over ATM networks. , 0, , .		5
34	A first approach to speeding-up the inter mode selection in MPEG-2/H.264 transcoders using machine learning. Multimedia Tools and Applications, 2007, 35, 225-240.	2.6	5
35	Motion vector refinement in a Wyner&#x2014;Ziv to H.264 transcoder for mobile telephony. IET Image Processing, 2009, 3, 335-339.	1.4	5
36	A Fast Splitting Algorithm for an H.264/AVC to HEVC Intra Video Transcoder. , 2016, , .		5

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37	Inter and intra pre-analysis algorithm for HEVC. Journal of Supercomputing, 2017, 73, 414-432.	2.4	5
38	Acceleration of the integer motion estimation in JEM through pre-analysis techniques. Journal of Supercomputing, 2019, 75, 1203-1214.	2.4	5
39	Heterogeneous CPU plus GPU approaches for HEVC. Journal of Supercomputing, 2019, 75, 1215-1226.	2.4	5
40	A unified architecture for fast HEVC intra-prediction coding. Journal of Real-Time Image Processing, 2019, 16, 1825-1844.	2.2	5
41	A tool for the analysis of reconfiguration and routing algorithms in irregular networks. Lecture Notes in Computer Science, 1998, , 159-173.	1.0	4
42	Study of video quality metrics for MPEG-2 based video communications. , 0, , .		4
43	QoS Mechanisms for IEEE 802.11 Wireless LANs. Lecture Notes in Computer Science, 2004, , 609-623.	1.0	4
44	QoS in IEEE 802.11 wireless LAN: current research activities. , 0, , .		4
45	Reducing Motion Estimation Complexity in MPEG-2 TO H.264 Transcoding. , 2007, , .		4
46	Reducing HEVC encoding complexity using two-stage motion estimation. , 2015, , .		4
47	A Data-Driven Probabilistic CTU Splitting Algorithm for Fast H.264/HEVC Video Transcoding. , 2015, , .		4
48	A pre-analysis algorithm for fast motion estimation in HEVC. , 2016, , .		4
49	QOS PROVISIONING MECHANISMS FOR IEEE 802.11 WLANS: A PERFORMANCE EVALUATION. , 2005, , .		4
50	Error resilient protocol architecture for the MPEG-2 video transmission over ATM networks. , 0, , .		3
51	Error resilient video transmission over ATM networks. , 1999, 37, 106-111.		3
52	Control Mechanisms for Error-Resilient MPEG-2 Video Communications over ATM Networks. Real Time Imaging, 2000, 6, 359-373.	1.6	3
53	A fast intra-frame prediction algorithm for MPEG-2/H.264 video transcoders. , 2005, , .		3
54	Computational Complexity Reduction of Intra-Frame Prediction in MPEG-2/H. 264 Video Transcoders. , 2005, , .		3

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55	A QoS-aware protocol architecture for WiMAX. , 2006, , .		3
56	On the Capabilities of Quality Measures in Video Compression Standards. , 2006, , .		3
57	Simple intra prediction algorithms for heterogeneous MPEG-2/H.264 video transcoders. Multimedia Tools and Applications, 2008, 38, 1-25.	2.6	3
58	Efficient WZ-to-H264 transcoding using motion vector information sharing. , 2009, , .		3
59	Multiservice unicast/multicast communications over IEEE 802.11e networks. Telecommunication Systems, 2010, 43, 59-72.	1.6	3
60	Temporal video transcoding for Digital TV broadcasting. , 2012, , .		3
61	H.264/AVC-to-SVC temporal video transcoder for video broadcasting in wireless networks. Multimedia Tools and Applications, 2016, 75, 497-525.	2.6	3
62	CTU splitting algorithm for H.264/AVC and HEVC simultaneous encoding. Journal of Supercomputing, 2017, 73, 190-202.	2.4	3
63	A fast hybrid scalable H.264/AVC and HEVC encoder. Journal of Supercomputing, 2017, 73, 277-290.	2.4	3
64	A Motion-Based Partitioning Algorithm for HEVC Using a Pre-Analysis Stage. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1448-1461.	5.6	3
65	Analysis of the Capabilities of Embedded Systems in Intraprediction Video Coding. IEEE Consumer Electronics Magazine, 2022, 11, 25-40.	2.3	3
66	Cost-efficient HEVC-based quadtree splitting (HEQUS) for VVC Video Transcoding. Signal Processing: Image Communication, 2021, 94, 116199.	1.8	3
67	Multiple Reference Frame Transcoding from H.264/AVC to HEVC. Lecture Notes in Computer Science, 2014, , 593-604.	1.0	3
68	A QoS-aware WLAN resource request mechanism for delay sensitive traffic. , 0, , .		2
69	Performance evaluation of error-resilient mechanisms for MPEG-4 video communications over wireless ATM links. , 0, , .		2
70	Improving the robustness of MPEG-4 video communications over wireless/3G mobile networks. , 0, , .		2
71	Breakpoint Tuning in DCT-Based Nonlinear Layered Video Codecs. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.0	2
72	RD-Optimization for MPEG-2 to H.264 Transcoding. , 2006, , .		2

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73	Developing a QoS framework for media streaming over TDMA/TDD wireless networks. International Journal of Wireless and Mobile Computing, 2007, 2, 120.	0.1	2
74	H.263 to H.264 Transcoding using Data Mining. , 2007, , .		2
75	DVC Based Stereoscopic Video Transmission in a Mobile Communication System. , 2008, , .		2
76	On the impact of the GOP size in an H.264/AVC-to-SVC transcoder with temporal scalability. , 2010, , .		2
77	A low-complexity closed-loop H.264/AVC to quality-scalable SVC transcoder. , 2011, , .		2
78	Low complexity adaptation for mobile video environments using data mining. , 2011, , .		2
79	Guaranteed access mode for downlink traffic over IEEE 802.11 WLANs. , 2011, , .		2
80	On the impact of the GOP size in a temporal H.264/AVC-to-SVC transcoder in baseline and main profile. Multimedia Systems, 2013, 19, 163-177.	3.0	2
81	Using Bayesian classifiers for low complexity multiview H.264/AVC and HEVC hybrid architecture. , 2015, , .		2
82	Parallelization and performance evaluation of open-source HEVC codecs. Journal of Supercomputing, 2017, 73, 495-513.	2.4	2
83	A fast intra H.264/AVC to HEVC transcoding system. Multimedia Tools and Applications, 2018, 77, 6367-6384.	2.6	2
84	Accelerating the CU partitioning decision in an HEVC-JEM transcoder. Multimedia Tools and Applications, 2020, 79, 2047-2067.	2.6	2
85	Efficient HEVC-to-VVC Transcoder Based On A Bayesian Classifier For The First Quadtree Depth Level. , 2020, , .		2
86	An Approach for an AVC to SVC Transcoder with Temporal Scalability. Lecture Notes in Computer Science, 2010, , 225-232.	1.0	2
87	On the effect of the handover mechanisms in QoS performance in wireless multimedia networks. , 2004, , .		1
88	Design and Evaluation of a QoS-aware Framework for HIPERLAN/2 Networks. Wireless Personal Communications, 2005, 34, 67-90.	1.8	1
89	QoS Support for Time-Constrained Multimedia Communications in IEEE 802.11 WLANs: A Performance Evaluation. , 0, , .		1
90	MAP decoder design for Distributed Video Coding in error prone wireless channels. , 2007, , .		1

#	ARTICLE	IF	CITATIONS
91	Generic techniques to improve SVC enhancement layer encoding digest of technical papers. , 2011, , .		1
92	An H.264/AVC to SVC TemporalTranscoder in Baseline profile digest of technical papers. , 2011, , .		1
93	Low-complexity transcoding algorithm from H.264/AVC to SVC using data mining. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.0	1
94	A Motion Vector Re-Use Algorithm for H.264/AVC and HEVC Simultaneous Video Encoding. , 2015, , .		1
95	GPU-Based Heterogeneous Coding Architecture for HEVC. Lecture Notes in Computer Science, 2016, , 529-536.	1.0	1
96	Temporal video transcoding from H.264/AVC-to-SVC for digital TV broadcasting. Telecommunication Systems, 2016, 61, 21-41.	1.6	1
97	Reducing the Complexity of a Multiview H.264/AVC and HEVC Hybrid Architecture. Journal of Signal Processing Systems, 2018, 90, 249-258.	1.4	1
98	A Novel IEEE 802.11e-Based QoS Protocol for Voice Communications over WLANs. Lecture Notes in Computer Science, 2006, , 224-235.	1.0	1
99	Efficient Joint Unicast/Multicast Transmission over IEEE 802.11e WLANs. International Federation for Information Processing, 2008, , 109-121.	0.4	1
100	Applying Data Mining Techniques in a Wyner-Ziv to H.264 Video Transcoder. Lecture Notes in Computer Science, 2011, , 497-504.	1.0	1
101	AN EXPERIENCE WITH FLIPPED LEARNING IN THE COMPUTER NETWORKS LABORATORY. , 2017, , .		1
102	Video Compression for Screen Recorded Sequences Following Eye Movements. Journal of Signal Processing Systems, 2021, 93, 1457-1465.	1.4	1
103	Performance evaluation of cell discarding mechanisms for hierarchical VBR MPEG-2 video traffic over ATM networks. , 0, , .		0
104	Error resilient in MPEG-2 video transmission over wireless ATM networks. , 0, , .		0
105	On the optimization of multiservice internet backbones. , 0, , .		0
106	A class-based allocation mechanism for delay sensitive traffic in WLANs. , 0, , .		0
107	On the capabilities of intra-frame predictionin H.264 video encoders. , 0, , .		0
108	MTAP special issue on video transcoding to H.264. Multimedia Tools and Applications, 2007, 35, 125-126.	2.6	0

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109	Hierarchical MPEG-4 video transmission over TDMA/TDD wireless LAN. Telecommunication Systems, 2007, 36, 129-139.	1.6	0
110	Call for Papers: "Ubiquitous Wireless Mesh Networks"™. International Journal of Communication Systems, 2008, 21, 1237-1238.	1.6	0
111	Special issue on ubiquitous wireless mesh networks. International Journal of Communication Systems, 2009, 22, 1241-1244.	1.6	0
112	On the effect of handover mechanisms on the performance of video communications in WATM networks. International Journal of Wireless and Mobile Computing, 2009, 3, 320.	0.1	0
113	Ensuring privacy in a Distributed Video Coding surveillance scenario. , 2011, , .		0
114	Wyner's Ziv to Baseline H.264 Video Transcoder. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	0
115	Wireless and mobile networking (WMNC 2010). Telecommunication Systems, 2013, 52, 2569-2571.	1.6	0
116	Scalable video transcoding for mobile communications. Telecommunication Systems, 2014, 55, 173.	1.6	0
117	A fast temporal and hybrid SHVC encoder. Signal Processing: Image Communication, 2019, 78, 180-186.	1.8	0
118	QoS-Aware Video Communications over TDMA/TDD Wireless Networks. Lecture Notes in Computer Science, 2006, , 50-63.	1.0	0
119	IEEE 802.11 Wireless LANs (WLANs). , 2007, , .		0
120	TDMA/TDD Wireless Networks. , 2007, , .		0
121	Fast Mode Decision Algorithm for H.264/AVC-to-SVC Transcoding with Temporal Scalability. Lecture Notes in Computer Science, 2012, , 585-596.	1.0	0