

Christian Timmerer

List of Publications by Year in descending order

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Version: 2024-02-01

129
papers

3,349
citations

567281

15
h-index

289244

40
g-index

134
all docs

134
docs citations

134
times ranked

2046
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges of QoE management for cloud applications. IEEE Communications Magazine, 2012, 50, 28-36.	6.1	551
2	Dynamic adaptive streaming over HTTP dataset. , 2012, , .		349
3	A Survey on Bitrate Adaptation Schemes for Streaming Media Over HTTP. IEEE Communications Surveys and Tutorials, 2019, 21, 562-585.	39.4	288
4	An evaluation of dynamic adaptive streaming over HTTP in vehicular environments. , 2012, , .		189
5	Towards Bandwidth Efficient Adaptive Streaming of Omnidirectional Video over HTTP. , 2017, , .		158
6	Digital item adaptation: overview of standardization and research activities. IEEE Transactions on Multimedia, 2005, 7, 418-426.	7.2	119
7	Mulsemmedia. ACM Transactions on Multimedia Computing, Communications and Applications, 2014, 11, 1-23.	4.3	118
8	A VLC media player plugin enabling dynamic adaptive streaming over HTTP. , 2011, , .		72
9	Towards subjective quality of experience assessment for omnidirectional video streaming. , 2017, , .		63
10	Towards 6DoF HTTP Adaptive Streaming Through Point Cloud Compression. , 2019, , .		54
11	Bitstream syntax description: a tool for multimedia resource adaptation within MPEG-21. Signal Processing: Image Communication, 2003, 18, 721-747.	3.2	53
12	A knowledge-based framework for multimedia adaptation. Applied Intelligence, 2006, 24, 109-125.	5.3	52
13	Distributed DASH dataset. , 2013, , .		52
14	An end-to-end tool chain for Sensory Experience based on MPEG-V. Signal Processing: Image Communication, 2013, 28, 136-150.	3.2	51
15	Dynamic Adaptive Point Cloud Streaming. , 2018, , .		49
16	Automated QoE evaluation of Dynamic Adaptive Streaming over HTTP. , 2013, , .		48
17	Dynamic adaptive streaming over CCN: A caching and overhead analysis. , 2013, , .		46
18	Improving the Quality of multimedia Experience through sensory effects. , 2010, , .		45

#	ARTICLE	IF	CITATIONS
19	Dynamic Adaptive Streaming over HTTP/2.0. , 2013, , .		43
20	Bandwidth prediction in low-latency chunked streaming. , 2019, , .		43
21	Investigating the impact of sensory effects on the Quality of Experience and emotional response in web videos. , 2012, , .		41
22	Multi-codec DASH dataset. , 2018, , .		36
23	A test-bed for quality of multimedia experience evaluation of Sensory Effects. , 2009, , .		31
24	Assessing the quality of sensory experience for multimedia presentations. Signal Processing: Image Communication, 2012, 27, 909-916.	3.2	29
25	Crowdsourcing Quality-of-Experience Assessments. Computer, 2014, 47, 98-102.	1.1	29
26	Automated bank cheque verification using image processing and deep learning methods. Multimedia Tools and Applications, 2021, 80, 5319-5350.	3.9	28
27	Intense: In-Depth Studies on Stall Events and Quality Switches and Their Impact on the Quality of Experience in HTTP Adaptive Streaming. IEEE Access, 2021, 9, 118087-118098.	4.2	24
28	A proxy effect analysis and fair adaptation algorithm for multiple competing Dynamic Adaptive Streaming over HTTP clients. , 2012, , .		23
29	Statistically Indifferent Quality Variation: An Approach for Reducing Multimedia Distribution Cost for Adaptive Video Streaming Services. IEEE Transactions on Multimedia, 2017, 19, 849-860.	7.2	23
30	Sensory Experience: Quality of Experience Beyond Audio-Visual. Quality of Experience, 2014, , 351-365.	0.4	23
31	From Capturing to Rendering: Volumetric Media Delivery with Six Degrees of Freedom. IEEE Communications Magazine, 2020, 58, 49-55.	6.1	22
32	Knapsack problem-based piece-picking algorithms for layered content in peer-to-peer networks. , 2010, , .		19
33	An experimental analysis of Dynamic Adaptive Streaming over HTTP in Content Centric Networks. , 2013, , .		19
34	OSCAR: On Optimizing Resource Utilization in Live Video Streaming. IEEE Transactions on Network and Service Management, 2021, 18, 552-569.	4.9	19
35	Efficient MPEG-21-based adaptation decision-taking for scalable multimedia content. , 2007, , .		18
36	A Novel Architecture for Multimedia Distribution Based on Content-Aware Networking. , 2010, , .		18

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37	Sensory effect dataset and test setups. , 2012, , .		17
38	CAdViSE. , 2020, , .		17
39	Oscillation compensating Dynamic Adaptive Streaming over HTTP. , 2015, , .		16
40	Scalable High Efficiency Video Coding based HTTP Adaptive Streaming over QUIC. , 2020, , .		16
41	AdViSE. , 2017, , .		15
42	ES-HAS. , 2021, , .		15
43	Sensory effects for ambient experiences in the World Wide Web. Multimedia Tools and Applications, 2014, 70, 1141-1160.	3.9	14
44	Toward a New Assessment of Quality. Computer, 2015, 48, 108-110.	1.1	14
45	H2BR. , 2020, , .		14
46	Scalable Media Coding Enabling Content-Aware Networking. IEEE MultiMedia, 2013, 20, 30-41.	1.7	13
47	Understanding quality of experience of heuristic-based HTTP adaptive bitrate algorithms. , 2021, , .		13
48	Efficient Content-Adaptive Feature-Based Shot Detection for HTTP Adaptive Streaming. , 2021, , .		13
49	Performance Analysis of ACTE. ACM Transactions on Multimedia Computing, Communications and Applications, 2020, 16, 1-24.	4.3	13
50	Using MPEG-21 for cross-layer multimedia content adaptation. Signal, Image and Video Processing, 2008, 2, 355-370.	2.7	12
51	A novel monitoring architecture for media services adaptation based on network QoS to perceived QoS mapping. Signal, Image and Video Processing, 2008, 2, 307-320.	2.7	10
52	Subjective Evaluation of an Olfaction Enhanced Immersive Virtual Reality Environment. , 2017, , .		10
53	On Optimizing Resource Utilization in AVC-based Real-time Video Streaming. , 2020, , .		10
54	LwTE: Light-Weight Transcoding at the Edge. IEEE Access, 2021, 9, 112276-112289.	4.2	10

#	ARTICLE	IF	CITATIONS
55	INCEPT: Intra CU Depth Prediction for HEVC. , 2021, , .		10
56	Dynamic adaptive streaming over HTTP. , 2012, , .		9
57	CSDN: CDN-Aware QoE Optimization in SDN-Assisted HTTP Adaptive Video Streaming. , 2021, , .		9
58	CTU depth decision algorithms for HEVC: A survey. Signal Processing: Image Communication, 2021, 99, 116442.	3.2	9
59	Towards MPEG-21-Based Cross-Layer Multimedia Content Adaptation. , 2007, , .		8
60	A Generic Utility Model Representing the Quality of Sensory Experience. ACM Transactions on Multimedia Computing, Communications and Applications, 2014, 11, 1-17.	4.3	8
61	FastTTPS: fast approach for video transcoding time prediction and scheduling for HTTP adaptive streaming videos. Cluster Computing, 2021, 24, 1605-1621.	5.0	8
62	LwTE-Live. , 2021, , .		8
63	Docker-Based Evaluation Framework for Video Streaming QoE in Broadband Networks. , 2019, , .		7
64	ComplexCTTP: Complexity Class Based Transcoding Time Prediction for Video Sequences Using Artificial Neural Network. , 2020, , .		7
65	Dynamic and Distributed Multimedia Content Adaptation based on the MPEG-21 Multimedia Framework*. Studies in Computational Intelligence, 2008, , 3-23.	0.9	7
66	Where to Encode: A Performance Analysis of x86 and Arm-based Amazon EC2 Instances. , 2021, , .		7
67	Multimedia Adaptation Decisions Modelled as Non-deterministic Operations. , 2008, , .		6
68	Immersive future media technologies. , 2010, , .		6
69	Interoperable digital rights management based on the MPEG Extensible Middleware. Multimedia Tools and Applications, 2011, 53, 303-318.	3.9	6
70	The Social Multimedia Experience. Computer, 2014, 47, 67-69.	1.1	6
71	Immersive Media Delivery: Overview of Ongoing Standardization Activities. IEEE Communications Standards Magazine, 2017, 1, 71-74.	4.9	6
72	Fast Multi-rate Encoding for Adaptive HTTP Streaming. , 2020, , .		6

#	ARTICLE	IF	CITATIONS
73	An Integrated Management Supervisor for End-to-End Management of Heterogeneous Contents, Networks, and Terminals enabling Quality of Service. , 2008, , .		6
74	Days of future past. , 2021, , .		6
75	On the Impact of Viewing Distance on Perceived Video Quality. , 2021, , .		6
76	Automated Objective and Subjective Evaluation of HTTP Adaptive Streaming Systems. , 2018, , .		5
77	Towards Optimal Multirate Encoding for HTTP Adaptive Streaming. Lecture Notes in Computer Science, 2021, , 469-480.	1.3	5
78	An interoperable delivery framework for scalable media resources. IEEE Wireless Communications, 2009, 16, 58-63.	9.0	4
79	A 4D multimedia player enabling sensory experience. , 2013, , .		4
80	Real-time multimedia streaming in unstructured peer-to-peer networks. , 2014, , .		4
81	Guest Editorial Video Distribution Over Future Internet. IEEE Journal on Selected Areas in Communications, 2016, 34, 2061-2062.	14.0	4
82	Fast Multi-Resolution and Multi-Rate Encoding for HTTP Adaptive Streaming Using Machine Learning. IEEE Open Journal of Signal Processing, 2021, 2, 484-495.	3.5	4
83	EADAS: Edge Assisted Adaptation Scheme for HTTP Adaptive Streaming. , 2021, , .		4
84	Scalable Video Coding in Content-Aware Networks: Research Challenges and Open Issues. , 2011, , 349-358.		4
85	HxL3 : Optimized Delivery Architecture for HTTP Low-Latency Live Streaming. IEEE Transactions on Multimedia, 2023, 25, 2585-2600.	7.2	4
86	Take the red pill for H3 and see how deep the rabbit hole goes. , 2022, , .		4
87	Toward Semantic Web Services for Multimedia Adaptation. Lecture Notes in Computer Science, 2004, , 641-652.	1.3	3
88	Design and Evaluation of a Metadata-Driven Adaptation Node. , 2007, , .		3
89	Scalable video coding guidelines and performance evaluations for adaptive media delivery of high definition content. , 2013, , .		3
90	Guest Editorial Adaptive Media Streaming. IEEE Journal on Selected Areas in Communications, 2014, 32, 681-683.	14.0	3

#	ARTICLE	IF	CITATIONS
91	Investigation of YouTube regarding Content Provisioning for HTTP Adaptive Streaming. , 2018, , .		3
92	MPEG-21 digital items in research and practice. , 2010, , .		3
93	Accelerating the Media Business with MPEG Extensible Middleware. IEEE MultiMedia, 2010, 17, 74-78.	1.7	3
94	Super-resolution based bitrate adaptation for HTTP adaptive streaming for mobile devices. , 2022, , .		3
95	QoCoVi: QoE- and cost-aware adaptive video streaming for the Internet of Vehicles. Computer Communications, 2022, 190, 1-9.	5.1	3
96	WISH: User-centric Bitrate Adaptation for HTTP Adaptive Streaming on Mobile Devices. , 2021, , .		3
97	Comparison of XML serializations: cost benefits versus complexity. Multimedia Systems, 2006, 12, 101-115.	4.7	2
98	The semantics of MPEG-21 digital items revisited. , 2008, , .		2
99	Comparison of piece-picking algorithms for layered video content in peer-to-peer networks. , 2012, , .		2
100	Over-the-Top Content Delivery. , 2014, , .		2
101	Quality of experience of commercially deployed adaptive media players. , 2017, , .		2
102	Guest Editorial Multimedia Economics for Future Networks: Theory, Methods, and Applications. IEEE Journal on Selected Areas in Communications, 2019, 37, 1473-1477.	14.0	2
103	Towards View-Aware Adaptive Streaming of Holographic Content. , 2020, , .		2
104	Special issue on Open Media Compression: Overview, Design Criteria, and Outlook on Emerging Standards. Proceedings of the IEEE, 2021, 109, 1423-1434.	21.3	2
105	ANGELA: HTTP Adaptive Streaming and Edge Computing Simulator. , 2021, , .		2
106	Quality impact of Scalable Video Coding tunneling for Media-Aware content delivery. , 2011, , .		1
107	Innovation Mashups: Academic Rigor Meets Social Networking Buzz. Computer, 2012, 45, 101-105.	1.1	1
108	Bounded non-deterministic planning for multimedia adaptation. Applied Intelligence, 2012, 36, 29-60.	5.3	1

#	ARTICLE	IF	CITATIONS
109	A Journey Towards Fully Immersive Media Access. , 2019, , .		1
110	MPEG-21 Digital Item Adaptation. , 2008, , 457-463.		1
111	Enhancing the User Experience with the Sensory Effect Media Player and AmbientLib. Lecture Notes in Computer Science, 2012, , 624-626.	1.3	1
112	MPEG column. ACM Multimedia, 2018, 9, 4-4.	0.1	1
113	MPEG column: 125th MPEG meeting in Marrakesh, Morocco. ACM Multimedia, 2019, 11, 1-1.	0.1	1
114	Detection and Localization of Video Transcoding From AVC to HEVC Based on Deep Representations of Decoded Frames and PU Maps. IEEE Transactions on Multimedia, 2022, , 1-16.	7.2	1
115	Editorialâ€™MTAP special issue on mobile media delivery. Multimedia Tools and Applications, 2011, 55, 179-183.	3.9	0
116	Service provider anD Content Aware Network Provider cross-layer optimisation of multimedia distribution. , 2011, , .		0
117	Distributed adaptation decision-taking framework and Scalable Video Coding tunneling for edge and in-network media adaptation. , 2012, , .		0
118	Optimization-Based Multimedia Adaptation Decision-Taking. , 2008, , 699-704.		0
119	Generic Multimedia Content Adaptation. , 2008, , 263-271.		0
120	End-to-End Management of Heterogeneous Environments Enabling Quality of Experience. Signals and Communication Technology, 2010, , 457-476.	0.5	0
121	MPEG column: 117th MPEG Meeting. ACM Multimedia, 2017, 8, 1.	0.1	0
122	MPEG column: 116th MPEG meeting. ACM Multimedia, 2017, 8, 1.	0.1	0
123	MPEG column. ACM Multimedia, 2017, 9, 9.	0.1	0
124	Standards column. ACM Multimedia, 2017, 9, 1.	0.1	0
125	MPEG column. ACM Multimedia, 2017, 9, 1.	0.1	0
126	Report from ACM MMSys 2017. ACM Multimedia, 2017, 9, 1.	0.1	0

#	ARTICLE	IF	CITATIONS
127	HTTP Adaptive Streaming. , 2020, , .		0
128	MoViDNN: A Mobile Platform for Evaluating Video Quality Enhancement with Deep Neural Networks. Lecture Notes in Computer Science, 2022, , 465-472.	1.3	0
129	CAdViSE or how to find the sweet spots of ABR systems. , 2022, , .		0