

Michael Seufert

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

2,150
citations

759233

12
h-index

501196

28
g-index

97
all docs

97
docs citations

97
times ranked

1210
citing authors

#	ARTICLE	IF	CITATIONS
1	Pandemic in the digital age: analyzing WhatsApp communication behavior before, during, and after the COVID-19 lockdown. Humanities and Social Sciences Communications, 2022, 9, .	2.9	7
2	ML-based Performance Prediction of SDN using Simulated Data from Real and Synthetic Networks. , 2022, , .		5
3	On Learning Hierarchical Embeddings from Encrypted Network Traffic. , 2022, , .		0
4	Cumulative Quality Modeling for HTTP Adaptive Streaming. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-24.	4.3	4
5	On Machine Learning Based Video QoE Estimation Across Different Networks. , 2021, , .		4
6	Performance Evaluation of Hybrid Crowdsensing and Fixed Sensor Systems for Event Detection in Urban Environments. Sensors, 2021, 21, 5880.	3.8	4
7	Delivering User Experience over Networks: Towards a Quality of ExperienceÂCentered Design Cycle for Improved Design of Networked Applications. SN Computer Science, 2021, 2, 1.	3.6	2
8	Statistical methods and models based on quality of experience distributions. Quality and User Experience, 2021, 6, 1.	3.9	6
9	Mobile Web and App QoE Monitoring for ISPs - from Encrypted Traffic to Speed Index through Machine Learning. , 2021, , .		3
10	Machine-Learning Based Prediction of Next HTTP Request Arrival Time in Adaptive Video Streaming. , 2021, , .		2
11	Optimizing HAS for 360-Degree Videos. , 2020, , .		0
12	Studying the Impact of the Content Selection Method on the Video QoE on Mobile Devices. , 2020, , .		1
13	QoE Assessment of Enterprise Applications Based on Self-Motivated Ratings. , 2020, , .		0
14	Different Points of View: Impact of 3D Point Cloud Reduction on QoE of Rendered Images. , 2020, , .		3
15	Are you on Mobile or Desktop? On the Impact of End-User Device on Web QoE Inference from Encrypted Traffic. , 2020, , .		4
16	ViCrypt to the Rescue: Real-Time, Machine-Learning-Driven Video-QoE Monitoring for Encrypted Streaming Traffic. IEEE Transactions on Network and Service Management, 2020, 17, 2007-2023.	4.9	29
17	Scoring High. , 2020, , .		2
18	Mind the (QoE) Gap: On the Incompatibility of Web and Video QoE Models in the Wild. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
19	Is QUIC becoming the New TCP? On the Potential Impact of a New Protocol on Networked Multimedia QoE. , 2019, , .		14
20	Fundamental Advantages of Considering Quality of Experience Distributions over Mean Opinion Scores. , 2019, , .		17
21	Considering User Behavior in the Quality of Experience Cycle: Towards Proactive QoE-Aware Traffic Management. IEEE Communications Letters, 2019, 23, 1145-1148.	4.1	25
22	Stream-based Machine Learning for Real-time QoE Analysis of Encrypted Video Streaming Traffic. , 2019, , .		35
23	QUICker or not? -an Empirical Analysis of QUIC vs TCP for Video Streaming QoE Provisioning. , 2019, , .		24
24	A Fair Share for All: TCP-Inspired Adaptation Logic for QoE Fairness Among Heterogeneous HTTP Adaptive Video Streaming Clients. IEEE Transactions on Network and Service Management, 2019, 16, 475-488.	4.9	9
25	On the Analysis of YouTube QoE in Cellular Networks through in-Smartphone Measurements. , 2019, , .		6
26	Features that Matter: Feature Selection for On-line Stalling Prediction in Encrypted Video Streaming. , 2019, , .		17
27	I See What you See. , 2019, , .		9
28	Online Detection of Stalling and Scrubbing in Adaptive Video Streaming. , 2019, , .		1
29	A Wrapper for Automatic Measurements with YouTube's Native Android App. , 2018, , .		7
30	App for Dynamic Crowdsourced QoE Studies of HTTP Adaptive Streaming on Mobile Devices. , 2018, , .		4
31	Performance Evaluation of Mobile Crowdsensing for Event Detection. , 2018, , .		3
32	Performance Evaluation of Service Functions Chain Placement Algorithms in Edge Cloud. , 2018, , .		5
33	WhatsAnalyzer: A Tool for Collecting and Analyzing WhatsApp Mobile Messaging Communication Data. , 2018, , .		7
34	A Public Dataset for YouTube's Mobile Streaming Client. , 2018, , .		9
35	Streaming Characteristics of Spotify Sessions. , 2018, , .		9
36	Investigating the Impact of Advertisement Banners and Clips on Video QoE. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
37	Enhancing Machine Learning Based QoE Prediction by Ensemble Models. , 2018, , .		6
38	Quality of experience and access network traffic management of HTTP adaptive video streaming. , 2018, , .		5
39	Studying the Impact of HAS QoE Factors on the Standardized QoE Model P.1203. , 2018, , .		15
40	Demo: A wrapper for automated measurements with YouTube's native app. , 2018, , .		0
41	A discrete-time model for optimizing the processing time of virtualized network functions. Computer Networks, 2017, 125, 4-14.	5.1	5
42	Analytical Model for SDN Signaling Traffic and Flow Table Occupancy and Its Application for Various Types of Traffic. IEEE Transactions on Network and Service Management, 2017, 14, 603-615.	4.9	18
43	On use of crowdsourcing for H.264/AVC and H.265/HEVC video quality evaluation. , 2017, , .		4
44	Edgenetworkcloudsim: Placement of service chains in edge clouds using networkcloudsim. , 2017, , .		11
45	Unperturbed video streaming QoE under web page related context factors. , 2017, , .		7
46	Dynamic cloud service placement for live video streaming with a remote-controlled drone. , 2017, , .		15
47	Unsupervised QoE field study for mobile YouTube video streaming with YoMoApp. , 2017, , .		20
48	An approximation of the backhaul bandwidth aggregation potential using a partial sharing scheme. , 2017, , .		2
49	Concept and implementation of video QoE measurements in a mobile broadband testbed. , 2017, , .		14
50	Predicting QoE in cellular networks using machine learning and in-smartphone measurements. , 2017, , .		53
51	Performance evaluation of selective flow monitoring in the ONOS controller. , 2017, , .		4
52	Applicability and limitations of a simple WiFi hotspot model for cities. , 2017, , .		5
53	Server and Content Selection for MPEG DASH Video Streaming with Client Information. , 2017, , .		1
54	Concept for Client-initiated Selection of Cloud Instances for Improving QoE of Distributed Cloud Services. , 2016, , .		2

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55	Group-based communication in WhatsApp. , 2016, , .		43
56	Evaluating the Impact of WiFi Offloading on Mobile Users of HTTP Adaptive Video Streaming. , 2016, , .		3
57	Analytic model for SDN controller traffic and switch table occupancy. , 2016, , .		6
58	Modeling the YouTube stack: From packets to quality of experience. Computer Networks, 2016, 109, 211-224.	5.1	60
59	QoE aware placement of content in edge networks on the example of a photo album cloud service. , 2016, , .		4
60	Application-layer monitoring of QoE parameters for mobile YouTube video streaming in the field. , 2016, , .		13
61	Assessment of subjective influence and trust with an online social network game. Computers in Human Behavior, 2016, 64, 233-246.	8.5	8
62	Load dynamics of a multiplayer online battle arena and simulative assessment of edge server placements. , 2016, , .		6
63	Perceptual Quality of HTTP Adaptive Streaming Strategies: Cross-Experimental Analysis of Multi-Laboratory and Crowdsourced Subjective Studies. IEEE Journal on Selected Areas in Communications, 2016, 34, 2141-2153.	14.0	40
64	Performance evaluation of backhaul bandwidth aggregation using a partial sharing scheme. Physical Communication, 2016, 19, 135-144.	2.1	13
65	A Simple WiFi Hotspot Model for Cities. IEEE Communications Letters, 2016, 20, 384-387.	4.1	19
66	Next to You: Monitoring Quality of Experience in Cellular Networks From the End-Devices. IEEE Transactions on Network and Service Management, 2016, 13, 181-196.	4.9	66
67	More than topology: Joint topology and attribute sampling and generation of social network graphs. Computer Communications, 2016, 73, 176-187.	5.1	6
68	Impact of test condition selection in adaptive crowdsourcing studies on subjective quality. , 2016, , .		7
69	Modelling and performance analysis of application-aware resource management. International Journal of Network Management, 2015, 25, 223-241.	2.2	3
70	Exploring QoE in Cellular Networks. , 2015, , .		25
71	Augmenting home routers for socially-aware traffic management. , 2015, , .		6
72	Taming QoE in cellular networks: From subjective lab studies to measurements in the field. , 2015, , .		10

#	ARTICLE	IF	CITATIONS
73	Impact of intermediate layer on quality of experience of HTTP adaptive streaming. , 2015, , .		28
74	Trade-Off between QoE and Operational Cost in Edge Resource Supported Video Streaming. , 2015, , .		4
75	Analysis of Group-Based Communication in WhatsApp. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 225-238.	0.3	16
76	Identifying QoE optimal adaptation of HTTP adaptive streaming based on subjective studies. Computer Networks, 2015, 81, 320-332.	5.1	58
77	YoMoApp: A tool for analyzing QoE of YouTube HTTP adaptive streaming in mobile networks. , 2015, , .		76
78	YouTube QoE on mobile devices: Subjective analysis of classical vs. adaptive video streaming. , 2015, , .		18
79	Impact of WiFi offloading on video streaming QoE in urban environments. , 2015, , .		13
80	A Survey on Quality of Experience of HTTP Adaptive Streaming. IEEE Communications Surveys and Tutorials, 2015, 17, 469-492.	39.4	617
81	Energy Considerations for WiFi Offloading of Video Streaming. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 181-195.	0.3	5
82	Poster: Understanding YouTube QoE in Cellular Networks with YoMoApp. , 2015, , .		13
83	Assessing effect sizes of influence factors towards a QoE model for HTTP adaptive streaming. , 2014, , .		57
84	An Overview of Application Traffic Management Approaches: Challenges and Potential Extensions. , 2014, , .		1
85	Close to Optimum?. PIK - Praxis Der Informationsverarbeitung Und Kommunikation, 2014, 37, .	0.2	3
86	The Impact of Adaptation Strategies on Perceived Quality of HTTP Adaptive Streaming. , 2014, , .		30
87	Crowdsourcing 2.0: Enhancing execution speed and reliability of web-based QoE testing. , 2014, , .		41
88	Socially-Aware Traffic Management. Springer Proceedings in Complexity, 2014, , 25-43.	0.3	7
89	Using buffered playtime for QoE-oriented resource management of YouTube video streaming. Transactions on Emerging Telecommunications Technologies, 2013, 24, 288-302.	3.9	29
90	“To pool or not to pool”: A comparison of temporal pooling methods for HTTP adaptive video streaming. , 2013, , .		47

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91	Gamification Framework for Personalized Surveys on Relationships in Online Social Networks. , 2013, , .		3
92	HORST - Home router sharing based on trust. , 2013, , .		20
93	YOUQMON. Performance Evaluation Review, 2013, 41, 44-46.	0.6	79
94	OC2E2AN: Optimized Control Center for Experience Enhancements in Access Networks. PIK - Praxis Der Informationsverarbeitung Und Kommunikation, 2013, 36, .	0.2	2
95	Quantification of YouTube QoE via Crowdsourcing. , 2011, , .		170