Martin Reisslein

List of Publications by Year
in descending order

241 papers	9,398 citations	50276 46 h-index
243 all docs	243 docs citations	243 times ranked

49909 87 g-index

6452 citing authors

#	Article	IF	Citations
1	MPEG-4 and H.263 video traces for network performance evaluation. IEEE Network, 2001, 15, 40-54.	6.9	500
2	Objective Video Quality Assessment Methods: A Classification, Review, and Performance Comparison. IEEE Transactions on Broadcasting, 2011, 57, 165-182.	3.2	493
3	Ultra-Low Latency (ULL) Networks: The IEEE TSN and IETF DetNet Standards and Related 5G ULL Research. IEEE Communications Surveys and Tutorials, 2019, 21, 88-145.	39.4	380
4	A survey of multimedia streaming in wireless sensor networks. IEEE Communications Surveys and Tutorials, 2008, 10, 18-39.	39.4	324
5	Cognitive Radio for Smart Grids: Survey of Architectures, Spectrum Sensing Mechanisms, and Networking Protocols. IEEE Communications Surveys and Tutorials, 2016, 18, 860-898.	39.4	285
6	Software Defined Optical Networks (SDONs): A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 2738-2786.	39.4	266
7	Network performance evaluation using frame size and quality traces of single-layer and two-layer video: A tutorial. IEEE Communications Surveys and Tutorials, 2004, 6, 58-78.	39.4	256
8	Integrating Renewable Energy Resources Into the Smart Grid: Recent Developments in Information and Communication Technologies. IEEE Transactions on Industrial Informatics, 2018, 14, 2814-2825.	11.3	255
9	Hybrid SDN Networks: A Survey of Existing Approaches. IEEE Communications Surveys and Tutorials, 2018, 20, 3259-3306.	39.4	236
10	Survey on Network Virtualization Hypervisors for Software Defined Networking. IEEE Communications Surveys and Tutorials, 2016, 18, 655-685.	39.4	226
11	WDM Ethernet passive optical networks. , 2006, 44, 15-22.		177
12	Ethernet passive optical network architectures and dynamic bandwidth allocation algorithms. IEEE Communications Surveys and Tutorials, 2008, 10, 46-60.	39.4	167
13	Video Transport Evaluation With H.264 Video Traces. IEEE Communications Surveys and Tutorials, 2012, 14, 1142-1165.	39.4	167
14	Full-Duplex Communication in Cognitive Radio Networks: A Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 2158-2191.	39.4	159
15	Traffic and Quality Characterization of Single-Layer Video Streams Encoded with the H.264/MPEG-4 Advanced Video Coding Standard and Scalable Video Coding Extension. IEEE Transactions on Broadcasting, 2008, 54, 698-718.	3.2	157
16	Device-Enhanced MEC: Multi-Access Edge Computing (MEC) Aided by End Device Computation and Caching: A Survey. IEEE Access, 2019, 7, 166079-166108.	4.2	146
17	Unicast QoS Routing Algorithms for SDN: A Comprehensive Survey and Performance Evaluation. IEEE Communications Surveys and Tutorials, 2018, 20, 388-415.	39.4	121
18	White space: Definitional perspectives and their role in exploiting spectrum opportunities. Telecommunications Policy, 2016, 40, 319-331.	5.3	109

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19	Towards Efficient Wireless Video Sensor Networks: A Survey of Existing Node Architectures and Proposal for A Flexi-WVSNP Design. IEEE Communications Surveys and Tutorials, 2011, 13, 462-486.	39.4	96
20	Encountering the expertise reversal effect with a computer-based environment on electrical circuit analysis. Learning and Instruction, 2006, 16, 92-103.	3.2	93
21	Metropolitan area packet-switched WDM networks: A survey on ring systems. IEEE Communications Surveys and Tutorials, 2004, 6, 2-20.	39.4	89
22	FiWi Access Networks Based on Next-Generation PON and Gigabit-Class WLAN Technologies: A Capacity and Delay Analysis. IEEE/ACM Transactions on Networking, 2014, 22, 1176-1189.	3.8	88
23	Distributing layered encoded video through caches. IEEE Transactions on Computers, 2002, 51, 622-636.	3.4	86
24	Investigation of the DBA Algorithm Design Space for EPONs. Journal of Lightwave Technology, 2012, 30, 2271-2280.	4.6	85
25	Reducing Latency in Virtual Machines: Enabling Tactile Internet for Human-Machine Co-Working. IEEE Journal on Selected Areas in Communications, 2019, 37, 1098-1116.	14.0	84
26	Teaching with concrete and abstract visual representations: Effects on students' problem solving, problem representations, and learning perceptions.. Journal of Educational Psychology, 2011, 103, 32-47.	2.9	83
27	Just-in-Time Scheduling for Multichannel EPONs. Journal of Lightwave Technology, 2008, 26, 1204-1216.	4.6	82
28	Performance Comparison of IEEE 802.1 TSN Time Aware Shaper (TAS) and Asynchronous Traffic Shaper (ATS). IEEE Access, 2019, 7, 44165-44181.	4.2	82
29	Adaptable and Data-Driven Softwarized Networks: Review, Opportunities, and Challenges. Proceedings of the IEEE, 2019, 107, 711-731.	21.3	80
30	Pedagogical Agent Signaling of Multiple Visual Engineering Representations: The Case of the Young Female Agent. Journal of Engineering Education, 2013, 102, 319-337.	3.0	78
31	Supporting multimedia learning with visual signalling and animated pedagogical agent: moderating effects of prior knowledge. Journal of Computer Assisted Learning, 2015, 31, 97-115.	5.1	78
32	Bandwidth management for WDM EPONs. Journal of Optical Networking, 2006, 5, 637.	2.5	77
33	5G Campus Networks: A First Measurement Study. IEEE Access, 2021, 9, 121786-121803.	4.2	69
34	Capacity and Delay Analysis of Next-Generation Passive Optical Networks (NG-PONs). IEEE Transactions on Communications, 2011, 59, 1378-1388.	7.8	67
35	LayBack: SDN Management of Multi-Access Edge Computing (MEC) for Network Access Services and Radio Resource Sharing. IEEE Access, 2018, 6, 57545-57561.	4.2	67
36	Caterpillar RLNC (CRLNC): A Practical Finite Sliding Window RLNC Approach. IEEE Access, 2017, 5, 20183-20197.	4.2	66

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37	An SDN architecture for time sensitive industrial IoT. Computer Networks, 2021, 186, 107739.	5.1	64
38	STARGATE: the next evolutionary step toward unleashing the potential of WDM EPONs [Topics in Optical Communications]. , 2007, 45, 50-56.		62
39	Offline and Online Multi-Thread Polling in Long-Reach PONs: A Critical Evaluation. Journal of Lightwave Technology, 2013, 31, 2018-2028.	4.6	61
40	Implications of Smoothing on Statistical Multiplexing of H.264/AVC and SVC Video Streams. IEEE Transactions on Broadcasting, 2009, 55, 541-558.	3.2	60
41	Delay analysis of Ethernet passive optical networks with gated service. Journal of Optical Networking, 2008, 7, 25.	2.5	59
42	A prefetching protocol for continuous media streaming in wireless environments. IEEE Journal on Selected Areas in Communications, 2001, 19, 2015-2028.	14.0	56
43	A framework for guaranteeing statistical QoS. IEEE/ACM Transactions on Networking, 2002, 10, 27-42.	3.8	54
44	Low-Memory Wavelet Transforms for Wireless Sensor Networks: A Tutorial. IEEE Communications Surveys and Tutorials, 2011, 13, 291-307.	39.4	54
45	Investigating the impact of pedagogical agent gender matching and learner choice on learning outcomes and perceptions. Computers and Education, 2013, 67, 36-50.	8.3	54
46	Providing application-level QoS in 3G/4G wireless systems: a comprehensive framework based on multirate CDMA. IEEE Wireless Communications, 2002, 9, 42-47.	9.0	51
47	Function Split Between Delay-Constrained Routing and Resource Allocation for Centrally Managed QoS in Industrial Networks. IEEE Transactions on Industrial Informatics, 2016, 12, 2050-2061.	11.3	51
48	PACE: Redundancy Engineering in RLNC for Low-Latency Communication. IEEE Access, 2017, 5, 20477-20493.	4.2	50
49	Hardware-Accelerated Platforms and Infrastructures for Network Functions: A Survey of Enabling Technologies and Research Studies. IEEE Access, 2020, 8, 132021-132085.	4.2	50
50	Optimizing Worked–Example Instruction in Electrical Engineering: The Role of Fading and Feedback during Problem–Solving Practice. Journal of Engineering Education, 2009, 98, 83-92.	3.0	49
51	Network Coding in Heterogeneous Multicore IoT Nodes With DAG Scheduling of Parallel Matrix Block Operations. IEEE Internet of Things Journal, 2017, 4, 917-933.	8.7	48
52	QR-SDN: Towards Reinforcement Learning States, Actions, and Rewards for Direct Flow Routing in Software-Defined Networks. IEEE Access, 2020, 8, 174773-174791.	4.2	48
53	Control Plane Latency With SDN Network Hypervisors: The Cost of Virtualization. IEEE Transactions on Network and Service Management, 2016, 13, 366-380.	4.9	47
54	Shortest propagation delay (SPD) first scheduling for EPONs with heterogeneous propagation delays. IEEE Journal on Selected Areas in Communications, 2010, 28, 849-862.	14.0	44

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55	Fulcrum: Flexible Network Coding for Heterogeneous Devices. IEEE Access, 2018, 6, 77890-77910.	4.2	44
56	A genetic algorithm-based methodology for optimizing multiservice convergence in a metro WDM network. Journal of Lightwave Technology, 2003, 21, 1114-1133.	4.6	41
57	Wavelength reuse for efficient packet-switched transport in an awg-based metro wdm network. Journal of Lightwave Technology, 2003, 21, 1435-1455.	4.6	41
58	Video Traffic Characteristics of Modern Encoding Standards: H.264/AVC with SVC and MVC Extensions and H.265/HEVC. Scientific World Journal, The, 2014, 2014, 1-16.	2.1	41
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61	Traffic characteristics of H.264/AVC variable bit rate video. , 2008, 46, 164-174.		40
62	Energy-Efficient Video Transmission Over a Wireless Link. IEEE Transactions on Vehicular Technology, 2009, 58, 1229-1244.	6.3	40
63	LATMAPA: Load-Adaptive Throughput- MAximizing Preamble Allocation for Prioritization in 5G Random Access. IEEE Access, 2017, 5, 1103-1116.	4.2	40
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65	Metro WDM Networks: Performance Comparison of Slotted Ring and AWG Star Networks. IEEE Journal on Selected Areas in Communications, 2004, 22, 1460-1473.	14.0	39
66	Traffic and Statistical Multiplexing Characterization of 3-D Video Representation Formats. IEEE Transactions on Broadcasting, 2013, 59, 382-389.	3.2	39
67	SDN-Based Smart Gateways (Sm-GWs) for Multi-Operator Small Cell Network Management. IEEE Transactions on Network and Service Management, 2016, 13, 740-753.	4.9	39
68	Impact of Retransmission Limit on Preamble Contention in LTE-Advanced Network. IEEE Systems Journal, 2015, 9, 752-765.	4.6	38
69	Caterpillar RLNC With Feedback (CRLNC-FB): Reducing Delay in Selective Repeat ARQ Through Coding. IEEE Access, 2018, 6, 44787-44802.	4.2	38
70	A hybrid MAC protocol for a metro WDM network using multiple free spectral ranges of an arrayed-waveguide grating. Computer Networks, 2003, 41, 407-433.	5.1	37
71	Connection Establishment in LTE-A Networks: Justification of Poisson Process Modeling. IEEE Systems Journal, 2017, 11, 2383-2394.	4.6	37
72	Performance evaluation of the fractional wavelet filter: A low-memory image wavelet transform for multimedia sensor networks. Ad Hoc Networks, 2011, 9, 482-496.	5.5	36

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74	AWG-based metro WDM networking. , 2004, 42, S19-S26.		34
75	Preâ€college Electrical Engineering Instruction: The Impact of Abstract vs. Contextualized Representation and Practice on Learning. Journal of Engineering Education, 2010, 99, 225-235.	3.0	34
76	H.264 Coarse Grain Scalable (CGS) and Medium Grain Scalable (MGS) Encoded Video: A Trace Based Traffic and Quality Evaluation. IEEE Transactions on Broadcasting, 2012, 58, 428-439.	3.2	31
77	DSEP Fulcrum: Dynamic Sparsity and Expansion Packets for Fulcrum Network Coding. IEEE Access, 2020, 8, 78293-78314.	4.2	31
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80	The Audacity of Fiber-Wireless (FiWi) Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 16-35.	0.3	28
81	Hybrid Collision Avoidance-Tree Resolution for M2M Random Access. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1974-1987.	4.7	28
82	Importance of Internet Exchange Point (IXP) infrastructure for 5G: Estimating the impact of 5G use cases. Telecommunications Policy, 2021, 45, 102091.	5.3	28
83	Traffic and Quality Characterization of the H.264/AVC Scalable Video Coding Extension. Advances in Multimedia, 2008, 2008, 1-27.	0.4	27
84	Smart Camera Networks [Guest editors' introduction]. Computer, 2014, 47, 23-25.	1.1	27
85	Cluster overlay broadcast (COB): MANET routing with complexity polynomial in source-destination distance. IEEE Transactions on Mobile Computing, 2006, 5, 653-667.	5.8	26
86	Animated agents in K-12 engineering outreach: Preferred agent characteristics across age levels. Computers in Human Behavior, 2013, 29, 1807-1815.	8.5	26
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90	The arrayed-waveguide grating-based single-hop WDM network: an architecture for efficient multicasting. IEEE Journal on Selected Areas in Communications, 2003, 21, 1414-1432.	14.0	23

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92	On the Minimization of Glass-to-Glass and Glass-to-Algorithm Delay in Video Communication. IEEE Transactions on Multimedia, 2018, 20, 238-252.	7.2	23
93	Guest Editorial Scalability Issues and Solutions for Software Defined Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 2595-2602.	14.0	23
94	Reinforcing the Edge: Autonomous Energy Management for Mobile Device Clouds. , 2019, , .		23
95	Video in distance education: ITFS vs. web-streaming: Evaluation of student attitudes. Internet and Higher Education, 2005, 8, 25-44.	6.5	22
96	The Rate Variability-Distortion (VD) Curve of Encoded Video and Its Impact on Statistical Multiplexing. IEEE Transactions on Broadcasting, 2005, 51, 473-492.	3.2	22
97	Evaluating multimedia networking mechanisms using video traces. IEEE Potentials, 2005, 24, 21-25.	0.3	22
98	Low-Latency Polling Schemes for Long-Reach Passive Optical Networks. IEEE Transactions on Communications, 2013, 61, 2936-2945.	7.8	21
99	A Framework for Advanced Video Traces: Evaluating Visual Quality for Video Transmission Over Lossy Networks. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	20
100	Introductory Circuit Analysis Learning From Abstract and Contextualized Circuit Representations: Effects of Diagram Labels. IEEE Transactions on Education, 2014, 57, 160-168.	2.4	20
101	Remote Robot Control with Human-in-the-Loop over Long Distances Using Digital Twins. , 2019, , .		20
102	Technological Literacy Learning With Cumulative and Stepwise Integration of Equations Into Electrical Circuit Diagrams. IEEE Transactions on Education, 2012, 55, 480-487.	2.4	19
103	R-FFT: Function Split at IFFT/FFT in Unified LTE CRAN and Cable Access Network. IEEE Transactions on Broadcasting, 2018, 64, 648-665.	3.2	19
104	Online excess bandwidth distribution for Ethernet passive optical networks. Journal of Optical Networking, 2009, 8, 358.	2.5	18
105	WVSNP-DASH: Name-Based Segmented Video Streaming. IEEE Transactions on Broadcasting, 2015, 61, 346-355.	3.2	18
106	Guest Editorial Special Section on Smart Grid and Renewable Energy Resources: Information and Communication Technologies With Industry Perspective. IEEE Transactions on Industrial Informatics, 2017, 13, 3119-3123.	11.3	18
107	Intelligent Resource Management at the Edge for Ubiquitous IoT: An SDN-Based Federated Learning Approach. IEEE Network, 2021, 35, 114-121.	6.9	18
108	Fine granularity scalable video: implications for streaming and a trace-based evaluation methodology. , 2005, 43, 138-142.		17

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109	The Effects of Priority Levels and Buffering on the Statistical Multiplexing of Single-Layer H.264/AVC and SVC Encoded Video Streams. IEEE Transactions on Broadcasting, 2010, 56, 281-287.	3.2	17
110	VMP: A MAC Protocol for EPON-Based Video-Dominated FiWi Access Networks. IEEE Transactions on Broadcasting, 2012, 58, 440-453.	3.2	17
111	Investigating the Presentation and Format of Instructional Prompts in an Electrical Circuit Analysis Computer-Based Learning Environment. IEEE Transactions on Education, 2005, 48, 531-539.	2.4	16
112	Comparing Static Fading with Adaptive Fading to Independent Problem Solving: The Impact on the Achievement and Attitudes of High School Students Learning Electrical Circuit Analysis. Journal of Engineering Education, 2006, 95, 217-226.	3.0	16
113	Video Texture and Motion Based Modeling of Rate Variability-Distortion (VD) Curves. IEEE Transactions on Broadcasting, 2007, 53, 637-648.	3.2	16
114	Multicast Capacity of Packet-Switched Ring WDM Networks. IEEE Transactions on Information Theory, 2008, 54, 623-644.	2.4	16
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116	Passive optical network (PON) supported networking. Optical Switching and Networking, 2014, 14, 1-10.	2.0	16
117	FSW: Fulcrum Sliding Window Coding for Low-Latency Communication. IEEE Access, 2022, 10, 54276-54290.	4.2	16
118	PROTECTORATION: a fast and efficient multiple-failure recovery technique for resilient packet ring using dark fiber. Journal of Lightwave Technology, 2005, 23, 2816-2838.	4.6	15
119	Identifying the classical music composition of an unknown performance with wavelet dispersion vector and neural netsâ˜†. Information Sciences, 2006, 176, 1629-1655.	6.9	15
120	Impact of report message scheduling (RMS) in 1G/10G EPON and GPON. Optical Switching and Networking, 2014, 12, 1-13.	2.0	15
121	Color Coding of Circuit Quantities in Introductory Circuit Analysis Instruction. IEEE Transactions on Education, 2015, 58, 7-14.	2.4	15
122	SMFrWF: Segmented Modified Fractional Wavelet Filter: Fast Low-Memory Discrete Wavelet Transform (DWT). IEEE Access, 2019, 7, 84448-84467.	4.2	15
123	A Multi-Layer Multi-Timescale Network Utility Maximization Framework for the SDN-Based LayBack Architecture Enabling Wireless Backhaul Resource Sharing. Electronics (Switzerland), 2019, 8, 937.	3.1	15
124	Automated Classification of Societal Sentiments on Twitter With Machine Learning. IEEE Transactions on Technology and Society, 2022, 3, 100-110.	3.2	15
125	Computer-Based Instruction on Multimedia Networking Fundamentals: Equational Versus Graphical Representation. IEEE Transactions on Education, 2005, 48, 438-447.	2.4	14
126	Toward a Fundamental Understanding of Worked Example Instruction: Impact of Means-Ends Practice, Backward/Forward Fading, and Adaptivity. , 2006, , .		14

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127	Trends in Optical Switching Techniques: A Short Survey. IEEE Network, 2008, 22, 42-47.	6.9	14
128	Reconfiguration Algorithms for High Precision Communications in Time Sensitive Networks. , 2019, , .		14
129	Mobility- and Energy-Aware Cooperative Edge Offloading for Dependent Computation Tasks. Network, 2021, 1, 191-214.	2.4	14
130	Video network traffic and quality comparison of VP8 and H.264 SVC. , 2010, , .		14
131	Learner Achievement and Attitudes under Different Paces of Transitioning to Independent Problem Solving. Journal of Engineering Education, 2007, 96, 45-56.	3.0	13
132	Learning from abstract and contextualized representations: The effect of verbal guidance. Computers in Human Behavior, 2013, 29, 2239-2247.	8.5	13
133	Circuits Kit Kâ€"12 Outreach: Impact of Circuit Element Representation and Student Gender. IEEE Transactions on Education, 2013, 56, 316-321.	2.4	13
134	Edge-Boost: Enhancing Multimedia Delivery with Mobile Edge Caching in 5G-D2D Networks. , 2019, , .		13
135	Multi-Layer Decomposition of Network Utility Maximization Problems. IEEE/ACM Transactions on Networking, 2020, 28, 2077-2091.	3.8	13
136	SpaRec: Sparse Systematic RLNC Recoding in Multi-Hop Networks. IEEE Access, 2021, 9, 168567-168586.	4.2	13
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138	Efficient delivery of frequent small data for U-healthcare applications over LTE-advanced networks. , 2012, , .		12
139	Transitional feedback schedules during computer-based problem-solving practice. Computers and Education, 2015, 81, 270-280.	8.3	12
140	The AWG<tex>$parallel$</tex>PSC Network: A Performance-Enhanced Single-Hop WDM Network With Heterogeneous Protection. Journal of Lightwave Technology, 2004, 22, 1242-1262.	4.6	11
141	Adaptive Video Transmission Schemes Using MPEG-7 Motion Intensity Descriptor. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 929-946.	8.3	11
142	Caching video objects: layers vs versions?. Multimedia Tools and Applications, 2006, 31, 221-245.	3.9	11
143	SFrWF: Segmented fractional wavelet filter based Dwt for low memory image coders. , 2017, , .		11
144	Layered Cooperative Resource Sharing at a Wireless SDN Backhaul. , 2018, , .		11

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146	Progressive Multicore RLNC Decoding With Online DAG Scheduling. IEEE Access, 2019, 7, 161184-161200.	4.2	11
147	Packet Header Compression: A Principle-Based Survey of Standards and Recent Research Studies. IEEE Communications Surveys and Tutorials, 2022, 24, 698-740.	39.4	11
148	Comparing the streaming of FGS encoded video at different aggregation levels: frame, GoP, and scene. International Journal of Communication Systems, 2005, 18, 449-464.	2.5	10
149	Pre-college electrical engineering instruction: do abstract or contextualized representations promote better learning?. , 2009, , .		10
150	Overview and Traffic Characterization of Coarse-Grain Quality Scalable (CGS) H.264 SVC Encoded Video. , 2010, , .		10
151	School fieldtrip to engineering workshop: pre-, post-, and delayed-post effects on student perceptions by age, gender, and ethnicity. European Journal of Engineering Education, 2019, 44, 745-768.	2.3	10
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153	A decentralized prefetching protocol for VBR video on demand. Lecture Notes in Computer Science, 1998, , 388-401.	1.3	10
154	<title>High-performance switchless WDM network using multiple free spectral ranges of an arrayed-waveguide grating</title>. , 2000, 4213, 101.		9
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156	Towards a Fundamental Understanding of the Stability and Delay of Offline WDM EPONs. Journal of Optical Communications and Networking, 2010, 2, 51.	4.8	9
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164	Delay analysis for ethernet long-reach passive optical networks. , 2012, , .		8
165	Hardware Acceleration for RLNC: A Case Study Based on the Xtensa Processor with the Tensilica Instruction-Set Extension. Electronics (Switzerland), 2018, 7, 180.	3.1	8
166	Social media influence, trust, and conflict: An interview based study of leadership perceptions. Technology in Society, 2022, 68, 101836.	9.4	8
167	Periodic broadcasting with VBR-encoded video. Multimedia Systems, 2004, 9, 503-516.	4.7	7
168	Layered video coding offset distortion traces for trace-based evaluation of video quality after network transport. , 0, , .		7
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171	Active and cooperative learning in a freshman digital design course: impact on persistence in engineering and student motivational orientation. Proceedings - Frontiers in Education Conference, FIE, 2007, , .	0.0	7
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180	Offset distortion traces for trace-based evaluation of video quality after network transport. , 0, , .		5

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