Nikolaos Thomos

List of Publications by Year
in descending order

60 papers	**1,007** citations	567281 **15** h-index	501196 **28** g-index
60 all docs	**60** docs citations	**60** times ranked	**821** citing authors

#	Article	IF	Citations
1	Optimized transmission of JPEG2000 streams over wireless channels. IEEE Transactions on Image Processing, 2006, 15, 54-67.	9.8	200
2	Wireless image transmission using turbo codes and optimal unequal error protection. IEEE Transactions on Image Processing, 2005, 14, 1890-1901.	9.8	82
3	Prioritized Distributed Video Delivery With Randomized Network Coding. IEEE Transactions on Multimedia, 2011, 13, 776-787.	7.2	53
4	Adaptive Prioritized Random Linear Coding and Scheduling for Layered Data Delivery From Multiple Servers. IEEE Transactions on Multimedia, 2015, 17, 893-906.	7.2	29
5	Raptor network video coding. , 2007, , .		28
6	Adaptive Video Streaming With Network Coding Enabled Named Data Networking. IEEE Transactions on Multimedia, 2017, 19, 2182-2196.	7.2	27
7	Randomized Network Coding for UEP video delivery in overlay networks. , 2009, , .		26
8	Tile-Based Joint Caching and Delivery of 360Â° Videos in Heterogeneous Networks. IEEE Transactions on Multimedia, 2020, 22, 2382-2395.	7.2	26
9	Network Coding of Rateless Video in Streaming Overlays. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1834-1847.	8.3	25
10	Securing SDN-Controlled IoT Networks Through Edge Blockchain. IEEE Internet of Things Journal, 2021, 8, 2102-2115.	8.7	25
11	Viewport-Aware Deep Reinforcement Learning Approach for 360° Video Caching. IEEE Transactions on Multimedia, 2022, 24, 386-399.	7.2	25
12	Stateless multicast switching in software defined networks. , 2016, , .		24
13	Tile-Based Edge Caching for 360Â° Live Video Streaming. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4938-4950.	8.3	24
14	Mobile tele-echography: user interface design. IEEE Transactions on Information Technology in Biomedicine, 2005, 9, 44-49.	3.2	23
15	Robust Transmission of H.264/AVC Streams Using Adaptive Group Slicing and Unequal Error Protection. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	22
16	NetCodCCN: A network coding approach for content-centric networks. , 2016, , .		21
17	Hierarchical Machine Learning for IoT Anomaly Detection in SDN. , 2019, , .		21
18	Toward One Symbol Network Coding Vectors. IEEE Communications Letters, 2012, 16, 1860-1863.	4.1	20

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19	Distributed sensor failure detection in sensor networks. Signal Processing, 2013, 93, 399-410.	3.7	19
20	Fast Q-Learning for Improved Finite Length Performance of Irregular Repetition Slotted ALOHA. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 844-857.	7.9	17
21	Interactive free viewpoint video streaming using prioritized network coding. , 2013, , .		15
22	Robust Coordinated Reinforcement Learning for MAC Design in Sensor Networks. IEEE Journal on Selected Areas in Communications, 2019, 37, 2211-2224.	14.0	15
23	Network Coding and Media Streaming (Invited Paper). Journal of Communications, 2009, 4, .	1.6	15
24	Product code optimization for determinate state LDPC decoding in robust image transmission. IEEE Transactions on Image Processing, 2006, 15, 2113-2119.	9.8	14
25	Content-Aware Delivery of Scalable Video in Network Coding Enabled Named Data Networks. IEEE Transactions on Multimedia, 2018, 20, 1561-1575.	7.2	14
26	Adaptive Frame Interpolation for Wyner-Ziv Video Coding. , 2007, , .		13
27	Selection of Network Coding Nodes for Minimal Playback Delay in Streaming Overlays. IEEE Transactions on Multimedia, 2011, 13, 1103-1115.	7.2	13
28	Hybrid Blockchain for IoT—Energy Analysis and Reward Plan. Sensors, 2021, 21, 305.	3.8	13
29	Collaborative video streaming with Raptor network coding. , 2008, , .		11
30	Approximate decoding approaches for network coded correlated data. Signal Processing, 2013, 93, 109-123.	3.7	11
31	Tile-Based Joint Caching and Delivery of 360Â° Videos in Heterogeneous Networks. , 2019, , .		11
32	Growth Codes: Intermediate Performance Analysis and Application to Video. IEEE Transactions on Communications, 2013, 61, 4710-4721.	7.8	9
33	Distributed Rate Allocation in <newline/> Inter-Session Network Coding. IEEE Transactions on Multimedia, 2014, 16, 1752-1765.	7.2	9
34	Optimal layered representation for adaptive interactive multiview video streaming. Journal of Visual Communication and Image Representation, 2015, 33, 255-264.	2.8	9
35	Degree distribution optimization in Raptor network coding. , 2011, , .		8
36	Scalable video dissemination with prioritized network coding. , 2011, , .		7

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37	Editorial: Spectrum extensions for 5G and beyond 5G networks. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3519.	3.9	7
38	Blockchain-Aided Flow Insertion and Verification in Software Defined Networks. , 2020, , .		7
39	Approximate decoding for network coded inter-dependent data. Signal Processing, 2016, 120, 222-235.	3.7	6
40	Seamless handover in IP over ICN networks: A coding approach. , 2017, , .		6
41	Anchor Free IP Mobility. IEEE Transactions on Mobile Computing, 2019, 18, 56-69.	5.8	6
42	Enhanced collision resolution and throughput analysis for the 802.11 distributed coordination function. International Journal of Communication Systems, 2021, 34, e4953.	2.5	6
43	Decoding Delay Minimization in Inter-Session Network Coding. IEEE Transactions on Communications, 2014, 62, 1944-1957.	7.8	5
44	Correlation-aware reconstruction of network coded sources. , 2012, , .		4
45	RC-NDN: Raptor codes enabled named data networking. , 2015, , .		4
46	Decentralized Reinforcement Learning Based MAC Optimization. , 2018, , .		4
47	Average Secrecy Throughput Analysis with Multiple Eavesdroppers in the Finite Blocklength. , 2020, , .		4
48	Machine Learning for Multimedia Communications. Sensors, 2022, 22, 819.	3.8	4
49	Information-Centric Multilayer Networking: Improving Performance Through an ICN/WDM Architecture. IEEE/ACM Transactions on Networking, 2017, 25, 83-97.	3.8	3
50	Mobility-based Proactive Multicast for Seamless Mobility Support in Cellular Network Environments. , 2017, , .		3
51	Active Eavesdropping in Short Packet Communication: Average Secrecy Throughput Analysis. , 2021, , .		3
52	P2P video streaming with inter-session network coding. , 2011, , .		2
53	Distributed rate allocation in P2P networks with inter-session network coding. , 2012, , .		2
54	An approximate dynamic programming approach for collaborative caching. Engineering Optimization, 2021, 53, 1005-1023.	2.6	2

#	Article	IF	Citations
55	Smart caching for live 360Â° video streaming in mobile networks. , 2020, , .		2
56	NC node selection game in collaborative streaming systems. , 2010, , .		1
57	Media Coding for Streaming in Networks with Source and Path Diversity. Studies in Computational Intelligence, 2010, , 291-316.	0.9	1
58	Guest editorial: IoT sensing, applications, and technologies for smart sustainable cities. IET Smart Cities, 2021, 3, 121-124.	3.1	1
59	Knowledge-Assisted Analysis of Video for Content-Adaptive Coding and Transmission. Studies in Computational Intelligence, 2008, , 221-240.	0.9	0
60	Comments on â€œIterative Channel Decoding of FEC-Based Multiple-Description Codesâ€. IEEE Transactions on Image Processing, 2013, 22, 4560-4560.	9.8	0