

# George C Polyzos

## List of Publications by Year in descending order

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197  
papers

5,042  
citations

331670

21  
h-index

155660

55  
g-index

204  
all docs

204  
docs citations

204  
times ranked

2924  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Information-Centric Networking Research. IEEE Communications Surveys and Tutorials, 2014, 16, 1024-1049.	39.4	1,039
2	Multicast routing for multimedia communication. IEEE/ACM Transactions on Networking, 1993, 1, 286-292.	3.8	533
3	A parameterizable methodology for Internet traffic flow profiling. IEEE Journal on Selected Areas in Communications, 1995, 13, 1481-1494.	14.0	263
4	TCP performance issues over wireless links. , 2001, 39, 52-58.		222
5	Application of sampling methodologies to network traffic characterization. , 1993, , .		159
6	Service discovery for mobile Ad Hoc networks: a survey of issues and techniques. IEEE Communications Surveys and Tutorials, 2008, 10, 30-45.	39.4	140
7	TCP and UDP performance over a wireless LAN. , 1999, , .		112
8	Developing Information Networking Further: From PSIRP to PURSUIT. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 1-13.	0.3	104
9	IP multicast for mobile hosts. , 1997, 35, 54-58.		95
10	Illustrating a publish-subscribe Internet architecture. Telecommunication Systems, 2012, 51, 233-245.	2.5	93
11	MultiCache: An overlay architecture for information-centric networking. Computer Networks, 2011, 55, 936-947.	5.1	91
12	Caching and mobility support in a publish-subscribe internet architecture. , 2012, 50, 52-58.		89
13	SCED: a generalized scheduling policy for guaranteeing quality-of-service. IEEE/ACM Transactions on Networking, 1999, 7, 669-684.	3.8	84
14	The multimedia multicasting problem. Multimedia Systems, 1998, 6, 43-59.	4.7	71
15	Proactive selective neighbor caching for enhancing mobility support in information-centric networks. , 2012, , .		66
16	Interledger Approaches. IEEE Access, 2019, 7, 89948-89966.	4.2	59
17	Wireless community networks: an alternative approach for nomadic broadband network access. , 2011, 49, 206-213.		55
18	Stimulating Participation in Wireless Community Networks. , 2006, , .		54

#	ARTICLE	IF	CITATIONS
19	Internet protocol performance over networks with wireless links. IEEE Network, 1999, 13, 55-63.	6.9	50
20	Decentralized name-based security for content distribution using blockchains. , 2016, , .		49
21	Blockchain-Assisted Information Distribution for the Internet of Things. , 2017, , .		48
22	Access control enforcement delegation for information-centric networking architectures. , 2012, , .		45
23	Efficient proactive caching for supporting seamless mobility. , 2014, , .		40
24	Tracking long-term growth of the NSFNET. Communications of the ACM, 1994, 37, 34-45.	4.5	33
25	Optimal multicast routing with quality of service constraints. Journal of Network and Systems Management, 1996, 4, 107-131.	4.9	33
26	Review of some fundamental approaches for power control in wireless networks. Computer Communications, 2011, 34, 1580-1592.	5.1	33
27	Network and Protocol Architectures for Future Satellite Systems. Foundations and Trends in Networking, 2017, 12, 1-161.	10.2	31
28	On Inter-Domain Name Resolution for Information-Centric Networks. Lecture Notes in Computer Science, 2012, , 13-26.	1.3	28
29	A peer-to-peer approach to wireless LAN roaming. , 2003, , .		27
30	GlobeTraff: A Traffic Workload Generator for the Performance Evaluation of Future Internet Architectures. , 2012, , .		27
31	Information-Centric Networking (ICN) architectures for integration of satellites into the Future Internet. , 2012, , .		27
32	Efficient cooperative searching on the Web: system design and evaluation. International Journal of Human Computer Studies, 2004, 61, 699-724.	5.6	26
33	Building a reliable Internet of Things using Information-Centric Networking. Journal of Reliable Intelligent Environments, 2015, 1, 47-58.	5.2	26
34	MobiShare: sharing context-dependent data & services from mobile sources. , 0, , .		25
35	Extended ZRP: a routing layer based service discovery protocol for mobile ad hoc networks. , 2005, , .		25
36	MobiWeb: enabling adaptive continuous media applications over 3G wireless links. IEEE Personal Communications, 2000, 7, 36-41.	3.8	24

#	ARTICLE	IF	CITATIONS
37	Quality of service support over multi-service wireless Internet links. <i>Computer Networks</i> , 2001, 37, 601-615.	5.1	24
38	Routing Layer Support for Service Discovery in Mobile Ad Hoc Networks. , 0, , .		24
39	Controlled Wi-Fi Sharing in Cities: A Decentralized Approach Relying on Indirect Reciprocity. <i>IEEE Transactions on Mobile Computing</i> , 2010, 9, 1147-1160.	5.8	23
40	Addressing niche demand based on joint mobility prediction and content popularity caching. <i>Computer Networks</i> , 2016, 110, 306-323.	5.1	23
41	Securing Content Sharing over ICN. , 2016, , .		23
42	Link layer support for quality of service on wireless Internet links. <i>IEEE Personal Communications</i> , 1999, 6, 52-60.	3.8	22
43	Adaptation techniques for ubiquitous Internet multimedia. <i>Wireless Communications and Mobile Computing</i> , 2001, 1, 141-163.	1.2	22
44	Decentralized authorization in constrained IoT environments exploiting interledger mechanisms. <i>Computer Communications</i> , 2020, 152, 243-251.	5.1	22
45	Access control as a service for the Cloud. <i>Journal of Internet Services and Applications</i> , 2015, 6, .	2.1	20
46	Fully Decentralized Trading Games with Evolvable Characters using NFTs and IPFS. , 2021, , .		19
47	A Hybrid Overlay Multicast and Caching Scheme for Information-Centric Networking. , 2010, , .		18
48	Smart Contracts for the Internet of Things: Opportunities and Challenges. , 2018, , .		18
49	Improving mobile ad hoc networks using hybrid IP-Information Centric Networking. <i>Computer Communications</i> , 2020, 156, 25-34.	5.1	18
50	Object-Oriented Packet Caching for ICN. , 2015, , .		18
51	Self-Organizing Networks for 5G and Beyond: A View from the Top. <i>Future Internet</i> , 2022, 14, 95.	3.8	18
52	H-Pastry: An inter-domain topology aware overlay for the support of name-resolution services in the future Internet. <i>Computer Communications</i> , 2015, 62, 13-22.	5.1	17
53	Interacting with the Internet of Things Using Smart Contracts and Blockchain Technologies. <i>Lecture Notes in Computer Science</i> , 2018, , 443-452.	1.3	17
54	Secure IoT Access at Scale Using Blockchains and Smart Contracts. , 2019, , .		17

#	ARTICLE	IF	CITATIONS
55	Mobile Apps Meet the Smart Energy Grid: A Survey on Consumer Engagement and Machine Learning Applications. IEEE Access, 2020, 8, 219632-219655.	4.2	17
56	Low Latency Friendliness for Multipath TCP. IEEE/ACM Transactions on Networking, 2020, 28, 248-261.	3.8	17
57	Enhancing information lookup privacy through homomorphic encryption. Security and Communication Networks, 2014, 7, 2804-2814.	1.5	16
58	Smart application-aware IoT data collection. Journal of Reliable Intelligent Environments, 2019, 5, 17-28.	5.2	16
59	Blockchain Technology for Intelligent Environments. Future Internet, 2019, 11, 213.	3.8	16
60	Optimizing Operation of a Hierarchical Campus-wide Mobile Grid for Intermittent Wireless Connectivity. , 2007, , .		15
61	OAuth 2.0 meets Blockchain for Authorization in Constrained IoT Environments. , 2019, , .		15
62	A queueing theoretic approach to the delay analysis for the FCFS 0.487 conflict resolution algorithm. IEEE Transactions on Information Theory, 1993, 39, 1887-1906.	2.4	14
63	Access Control for the Internet of Things. , 2016, , .		14
64	Structure and evolution of a large-scale Wireless Community Network. , 2009, , .		13
65	Fighting spam in publish/subscribe networks using information ranking. , 2010, , .		13
66	MultiCache: An Incrementally Deployable Overlay Architecture for Information-Centric Networking. , 2010, , .		13
67	Supporting the IoT over Integrated Satellite-Terrestrial Networks Using Information-Centric Networking. , 2016, , .		13
68	Access control enforcement delegation for information-centric networking architectures. Computer Communication Review, 2012, 42, 497-502.	1.8	12
69	Security and privacy issues for the network of the future. Security and Communication Networks, 2012, 5, 987-1005.	1.5	12
70	Realizing the Internet of Things using information-centric networking. , 2014, , .		12
71	Beacons and Blockchains in the Mobile Gaming Ecosystem: A Feasibility Analysis. Sensors, 2021, 21, 862.	3.8	12
72	Secure Open Federation of IoT Platforms Through Interledger Technologies - The SOFIE Approach. , 2019, , .		11

#	ARTICLE	IF	CITATIONS
73	Towards a Secure Rendezvous Network for Future Publish/Subscribe Architectures. Lecture Notes in Computer Science, 2010, , 49-56.	1.3	11
74	European R&D on fourth-generation mobile and wireless IP networks [Guest Editorial]. IEEE Personal Communications, 2001, 8, 6-7.	3.8	10
75	Optimizing Operation of a Hierarchical Campus-Wide Mobile Grid. , 2007, , .		10
76	Towards secure and context-aware information lookup for the Internet of Things. , 2013, , .		10
77	Smart IoT Data Collection. , 2018, , .		10
78	Wireless link layer enhancements for TCP and UDP applications. , 0, , .		9
79	Are Information-Centric Networks Video-Ready?. , 2013, , .		9
80	Edge-ICN and its application to the Internet of Things. , 2017, , .		9
81	Towards the realization of a mobile grid. , 2007, , .		8
82	A routing layer based approach for energy efficient service discovery in mobilead hocnetworks. Wireless Communications and Mobile Computing, 2009, 9, 655-672.	1.2	8
83	Efficient information lookup for the Internet of Things. , 2012, , .		8
84	Security and performance challenges for user-centric wireless networking. , 2014, 52, 48-55.		8
85	Multi-flow congestion control with network assistance. , 2016, , .		8
86	A Framework for Privacy Analysis of ICN Architectures. Lecture Notes in Computer Science, 2014, , 117-132.	1.3	8
87	Plane cover multiple access: a new approach to maximizing cellular system capacity. IEEE Journal on Selected Areas in Communications, 2001, 19, 2131-2141.	14.0	7
88	Self-organised peering of wireless LAN hotspots. European Transactions on Telecommunications, 2005, 16, 471-482.	1.2	7
89	Misbehavior Scenarios in Cognitive Radio Networks. Future Internet, 2010, 2, 212-237.	3.8	7
90	Multisource and multipath file transfers through publish-subscribe internetnetworking. , 2013, , .		7

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91	Enabling NAME-Based Security and Trust. IFIP Advances in Information and Communication Technology, 2015, , 47-59.	0.7	7
92	Plane cover multiple access: a media access control strategy for wireless environments. , 0, , .		6
93	Optimizing the channel load reporting process in IEEE 802.11k-enabled WLANs. , 2008, , .		6
94	Monitoring and Modeling Simple Everyday Activities of the Elderly at Home. , 2010, , .		6
95	Supporting mobility in a publish subscribe internetwork architecture. , 2011, , .		6
96	Efficient real-time information delivery in Future Internet Publish-Subscribe Networks. , 2013, , .		6
97	The MusiNet project: Towards unraveling the full potential of Networked Music Performance systems. , 2014, , .		6
98	CoAP over ICN. , 2016, , .		6
99	Trusted D2D-Based IoT Resource Access Using Smart Contracts. , 2019, , .		6
100	Publish-Subscribe Internetworking Security Aspects. , 2011, , 3-15.		6
101	Multi-resolution Layered Coding for Real-Time Image Transmission: Architectural and Error Control Considerations. Real Time Imaging, 1998, 4, 275-298.	1.6	5
102	Peer-to-peer wireless LAN consortia: economic modeling and architecture. , 0, , .		5
103	Multi-service link layer enhancements for the wireless Internet. , 0, , .		5
104	On the performance of secure user-centric VoIP communication. Computer Networks, 2014, 70, 330-344.	5.1	5
105	IoT Resource Access utilizing Blockchains and Trusted Execution Environments. , 2019, , .		5
106	Enabling Opportunistic Users in Multi-Tenant IoT Systems using Decentralized Identifiers and Permissioned Blockchains. , 2019, , .		5
107	Hierarchical Blockchain Topologies for Quality Control in Food Supply Chains. , 2020, , .		5
108	A privacy-preserving statistics marketplace using local differential privacy and blockchain: An application to smart-grid measurements sharing. Blockchain: Research and Applications, 2021, 2, 100022.	6.7	5

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109	Securing Named Data Networking routing using Decentralized Identifiers. , 2021, , .		5
110	Secure interference reporting for dense Wi-Fi deployments. , 2009, , .		5
111	Image browsing and animation over a local ATM testbed. , 0, , .		4
112	IP multicast group management for point-to-point local distribution. Computer Communications, 1998, 21, 1645-1654.	5.1	4
113	Pricing Differentiated Services in the GPRS Environment. Wireless Networks, 2003, 9, 331-339.	3.0	4
114	A multi-service link layer architecture for the wireless Internet. International Journal of Communication Systems, 2004, 17, 553-574.	2.5	4
115	Public infrastructures for internet access in metropolitan areas. , 2006, , .		4
116	Maximizing network throughput. IEEE Vehicular Technology Magazine, 2009, 4, 33-39.	3.4	4
117	Negotiation-Based Distributed Power Control in Wireless Networks with Autonomous Nodes. , 2011, , .		4
118	Handling mobility in future publish-subscribe information-centric networks. Telecommunication Systems, 2013, 53, 299-314.	2.5	4
119	Cognitive and context-aware assistive environments using future internet technologies. Universal Access in the Information Society, 2014, 13, 59-72.	3.0	4
120	Reputation-based crowdsourced Wi-Fi topology discovery. Computer Networks, 2015, 79, 1-16.	5.1	4
121	On the inter-domain scalability of route-by-name Information-Centric Network Architectures. , 2015, , .		4
122	ICN enabling CoAP extensions for IP based IoT devices. , 2017, , .		4
123	A platform for wireless maritime networking experimentation. , 2018, , .		4
124	Name-Based Security for Information-Centric Networking Architectures. Future Internet, 2019, 11, 232.	3.8	4
125	Interledger Smart Contracts for Decentralized Authorization to Constrained Things. , 2019, , .		4
126	Enabling self-verifiable mutable content items in IPFS using Decentralized Identifiers. , 2021, , .		4



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127	A bargaining approach to power control in networks of autonomous wireless entities. , 2010, , .		4
128	Location-Based Services in the Mobile Communications Industry. , 2009, , 1754-1761.		4
129	Designing a peer-to-peer wireless network confederation. , 0, , .		3
130	A Self-Managed Scheme for Free Citywide Wi-Fi. , 0, , .		3
131	Report-based topology discovery schemes for centrally-managed Wi-Fi deployments. , 2010, , .		3
132	Scam and fraud detection in VoIP Networks: Analysis and countermeasures using user profiling. , 2011, , .		3
133	Fighting Phishing the Information-Centric Way. , 2012, , .		3
134	Content dissemination in wireless networks exploiting relaying and information-centric architectures. , 2014, , .		3
135	The MusiNet project: Addressing the challenges in Networked Music Performance systems. , 2015, , .		3
136	QoS-driven multipath routing for on-demand video streaming in a Publish-Subscribe Internet. , 2015, , .		3
137	I-CAN: Information-Centric Access Networking. , 2015, , .		3
138	Mobility-based Proactive Multicast for Seamless Mobility Support in Cellular Network Environments. , 2017, , .		3
139	Edge-assisted Traffic Engineering and applications in the IoT. , 2018, , .		3
140	Multipath congestion control with network assistance. Computer Communications, 2020, 153, 264-278.	5.1	3
141	Capability-based access control for multi-tenant systems using OAuth 2.0 and Verifiable Credentials. , 2021, , .		3
142	Quality of Service Issues in Multi-service Wireless Internet Links. Lecture Notes in Computer Science, 2001, , 347-363.	1.3	3
143	SOFIE: Secure Open Federation for Internet Everywhere. , 2018, , .		3
144	Pricing differentiated services in the GPRS environment. , 2001, , .		2

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145	Peer-to-Peer Secure and Private Community Based Multimedia Communications. , 2006, , .		2
146	Reducing the Transmission Power Requirements of the Multimedia Broadcast/Multicast Service. , 2007, , .		2
147	Power Control in WLANs for Optimization of Social Fairness. , 2008, , .		2
148	Coupling QoS provision with interference reporting in WLAN sharing communities. , 2008, , .		2
149	Robust client-based Wi-Fi topology discovery. , 2011, , .		2
150	On the Nash Equilibria of graphical games for channel access in multihop wireless networks. , 2014, , .		2
151	Analysis of the effect of InfoRanking on content pollution in peer-to-peer systems. Security and Communication Networks, 2014, 7, 700-713.	1.5	2
152	Access control delegation for the cloud. , 2014, , .		2
153	Relay-based multipoint content delivery for wireless users in an information-centric network. Computer Networks, 2016, 105, 207-223.	5.1	2
154	Energy Efficient Context based Forwarding Strategy in Named Data Networking of Things. , 2016, , .		2
155	CoAP for content-centric networks. , 2017, , .		2
156	One model fits all. , 2021, , .		2
157	Location-Based Services in Mobile Communications Industry. , 2006, , 716-721.		2
158	Service Discovery and Provision for Autonomic Mobile Computing. Lecture Notes in Computer Science, 2006, , 226-236.	1.3	2
159	A queueing theoretic methodology for the analysis of separable conflict resolution algorithms with variable length elementary events. Queueing Systems, 1994, 16, 339-361.	0.9	1
160	Guest Editorial: Mobile Multimedia Communications. Mobile Networks and Applications, 2001, 6, 407-408.	3.3	1
161	A peer-to-peer approach to cellular communications. , 2006, , .		1
162	Fueling Game Development in Mobile P2P Environments. , 2007, , .		1

#	ARTICLE	IF	CITATIONS
163	AVERT: Adaptive SerVicE and Route Discovery ProTocol for MANETs. , 2008, , .		1
164	Design challenges of open spectrum access. , 2008, , .		1
165	Supporting Mobile streaming services in future publish/subscribe networks. , 2009, , .		1
166	Exploiting super peers for large-scale peer-to-peer Wi-Fi roaming. , 2010, , .		1
167	Information-centric networking. , 2011, , .		1
168	I-CAN: Information-centric future mobile and wireless access networks. , 2014, , .		1
169	Channel access competition in linear multihop device-to-device networks. , 2014, , .		1
170	Securing Information-Centric Networking without Negating Middleboxes. , 2016, , .		1
171	Exploiting Caching, Proxy Re-encryption, Incentives, and Wi-Fi Direct for Authorized Content Distribution. Procedia Computer Science, 2016, 98, 80-86.	2.0	1
172	QOE Performance Evaluation of Youtube Video Streaming in Mobile Broadband Networks. , 2018, , .		1
173	Exploiting Satellite Broadcast Despite HTTPS. , 2019, , .		1
174	Trustworthy Accounting for Wireless LAN Sharing Communities. Lecture Notes in Computer Science, 2004, , 260-273.	1.3	1
175	Evaluating Student Learning in Distance Education. , 2005, , 891-898.		1
176	A future wireless internet beyond generations. , 2010, , .		1
177	Improving IoT Federation Resiliency With Distributed Ledger Technology. IEEE Access, 2021, 9, 161695-161708.	4.2	1
178	The Impact of Technology Advances on Strategy Formulation in Mobile Communications Networks. , 0, 90-120.		1
179	R-DQDB: Fair DQDB through Rotation of the Responsibility for Slot Generation. , 0, , .		0
180	Fair DQDB: The Rotating Slot Generator Scheme. Journal of High Speed Networks, 1995, 4, 255-273.	0.8	0

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181	The role of streaming in interactive multimedia documents dissemination. , 2001, , .		0
182	Optimizations for charged service provision in Mobile Ad Hoc Networks. , 2008, , .		0
183	ASPECTS: Agile spectrum security. , 2011, , .		0
184	Security requirements and solutions for integrated satellite-terrestrial Information-Centric Networks. , 2014, , .		0
185	Fighting packet storms in mobile networks with information-centrism. , 2014, , .		0
186	Exploiting path diversity for networked music performance in the Publish Subscribe Internet. , 2015, , .		0
187	Pushing for higher rates and efficiency in Satcom: The different perspectives within SatNEXIV. , 2015, , .		0
188	Decentralized Interledger Gateway Architectures in Authorization Scenarios with Multiple Ledgers. , 2020, , .		0
189	Mobile Multicast. , 2003, , 217-243.		0
190	Peer-to-Peer Wireless Network Confederation. , 2006, , 378-381.		0
191	Location-Based Services in Mobile Communications Industry. , 2008, , 2150-2157.		0
192	Web-Based Collaborative Assessment Systems. , 2009, , 2319-2323.		0
193	Mobility-Aware Grid Computing. , 2009, , 2626-2630.		0
194	Network Traffic Issues for Interactive Multipoint Multimedia Applications. , 1999, , 237-250.		0
195	Power Control and Bargaining for Cellular Operator Revenue Increase Under Licensed Spectrum Sharing. Static and Dynamic Game Theory: Foundations and Applications, 2017, , 101-111.	0.6	0
196	Evaluating Student Learning in Distance Education. , 0, , 677-685.		0
197	IoT Group Membership Management Using Decentralized Identifiers and Verifiable Credentials. Future Internet, 2022, 14, 173.	3.8	0