

Alex B Vieira

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

1,027
citations

759233

12
h-index

552781

26
g-index

96
all docs

96
docs citations

96
times ranked

871
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible Light Communication: Concepts, Applications and Challenges. IEEE Communications Surveys and Tutorials, 2019, 21, 3204-3237.	39.4	317
2	Analyzing client interactivity in streaming media. , 2004, , .		108
3	Learning Blockchain Delays. Performance Evaluation Review, 2019, 46, 122-125.	0.6	38
4	Medium Access Control Protocols for Power Line Communication: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 920-939.	39.4	27
5	TIME CENTRALITY IN DYNAMIC COMPLEX NETWORKS. International Journal of Modeling, Simulation, and Scientific Computing, 2015, 18, 1550023.	1.4	20
6	SDCCN: A Novel Software Defined Content-Centric Networking Approach. , 2016, , .		20
7	Characterizing SopCast client behavior. Computer Communications, 2012, 35, 1004-1016.	5.1	18
8	A survey on data analysis on large-Scale wireless networks: online stream processing, trends, and challenges. Journal of Internet Services and Applications, 2020, 11, .	2.1	17
9	An analysis of the fees and pending time correlation in Ethereum. International Journal of Network Management, 2021, 31, e2113.	2.2	16
10	Characterizing client usage patterns and service demand for car-sharing systems. Information Systems, 2021, 98, 101448.	3.6	16
11	Fighting pollution in P2P live streaming systems. , 2008, , .		15
12	Water ping: ICMP for the internet of underwater things. Computer Networks, 2019, 152, 54-63.	5.1	15
13	Efficient power management in real-time embedded systems. , 0, , .		14
14	Workload models and performance evaluation of cloud storage services. Computer Networks, 2016, 109, 183-199.	5.1	14
15	Performance evaluation of in-home broadband PLC systems using a cooperative MAC protocol. Computer Networks, 2016, 95, 62-76.	5.1	14
16	Autonomous Wireless Lake Monitoring. Computing in Science and Engineering, 2018, 20, 66-75.	1.2	14
17	HydroNode: A low cost, energy efficient, multi purpose node for underwater sensor networks. , 2012, , .		12
18	SopCast P2P live streaming. , 2013, , .		12

#	ARTICLE	IF	CITATIONS
19	Modeling the Dropbox client behavior. , 2014, , .		12
20	The Impact of Content Sharing on Cloud Storage Bandwidth Consumption. IEEE Internet Computing, 2016, 20, 26-35.	3.3	12
21	Predicting the level of cooperation in a Peer-to-Peer live streaming application. Multimedia Systems, 2016, 22, 161-180.	4.7	12
22	Energy Consumption Evaluation of a Routing Protocol for Low-Power and Lossy Networks in Mesh Scenarios for Precision Agriculture. Sensors, 2020, 20, 3814.	3.8	12
23	OpenFlow data planes performance evaluation. Performance Evaluation, 2021, 147, 102194.	1.2	12
24	Can Peer-to-Peer live streaming systems coexist with free riders?. , 2013, , .		11
25	Characterizing peers communities and dynamics in a P2P live streaming system. Peer-to-Peer Networking and Applications, 2016, 9, 1-15.	3.9	11
26	Characterizing QoE in Large-Scale Live Streaming. , 2017, , .		11
27	DYRP-VLC: A dynamic routing protocol for Wireless Ad-Hoc Visible Light Communication Networks. Ad Hoc Networks, 2019, 94, 101941.	5.5	11
28	Performance evaluation of OpenFlow data planes. , 2017, , .		10
29	SDN-Based Architecture for Providing QoS to High Performance Distributed Applications. , 2018, , .		10
30	SimplyRep: A simple and effective reputation system to fight pollution in P2P live streaming. Computer Networks, 2013, 57, 1019-1036.	5.1	9
31	CoVeC: Coarse-grained vertex clustering for efficient community detection in sparse complex networks. Information Sciences, 2020, 522, 180-192.	6.9	9
32	Analyzing Transaction Confirmation in Ethereum Using Machine Learning Techniques. Performance Evaluation Review, 2021, 48, 12-15.	0.6	9
33	Forecasting the carsharing service demand using uni and multivariable models. Journal of Internet Services and Applications, 2021, 12, .	2.1	9
34	Fighting Attacks in P2P Live Streaming. Simpler is Better. , 2009, , .		8
35	Survey on the design of underwater sensor nodes. Design Automation for Embedded Systems, 2016, 20, 171-190.	1.0	8
36	Cryptographic Algorithms in Wearable Communications: An Empirical Analysis. IEEE Communications Letters, 2019, 23, 1931-1934.	4.1	8

#	ARTICLE	IF	CITATIONS
37	IEEE P21451-1-7: Providing More Efficient Network Services over MQTT-SN. , 2019, , .		8
38	The internet of light: Impact of colors in LED-to-LED visible light communication systems. Internet Technology Letters, 2019, 2, e78.	1.9	8
39	Fast centrality-driven diffusion in dynamic networks. , 2013, , .		7
40	An enhanced cooperative MAC protocol for hybrid PLC/wireless systems. Computer Networks, 2019, 163, 106878.	5.1	7
41	Characterizing Dynamic Properties of the SopCast Overlay Network. , 2012, , .		6
42	EPLC-CMAC: An enhanced cooperative MAC protocol for broadband PLC systems. Computer Networks, 2019, 153, 11-22.	5.1	6
43	Using Centrality Metrics to Predict Peer Cooperation in Live Streaming Applications. Lecture Notes in Computer Science, 2012, , 84-96.	1.3	6
44	LORENA: Low memORy symmEtric-Key geNeRAtion Method for Based on Group Cryptography Protocol Applied to the Internet of Healthcare Things. IEEE Access, 2022, 10, 12564-12579.	4.2	6
45	HydroNode. , 2012, , .		5
46	Pollution and whitewashing attacks in a P2P live streaming system: Analysis and counter-attack. , 2013, , .		5
47	Bufferbloat systematic analysis. , 2014, , .		5
48	Virtualizing Packet-Processing Network Functions Over Heterogeneous OpenFlow Switches. IEEE Transactions on Network and Service Management, 2022, 19, 485-496.	4.9	5
49	An SDN-based energy-aware traffic management mechanism. Annales Des Telecommunications/Annals of Telecommunications, 2022, 77, 139-150.	2.5	5
50	SDN-based architecture for providing quality of service to high-performance distributed applications. International Journal of Network Management, 2021, 31, e2078.	2.2	4
51	Inferring Gene Regulatory Network Models from Time-Series Data Using Metaheuristics. , 2020, , .		4
52	A cooperative protocol for pervasive underwater acoustic networks. Wireless Networks, 2021, 27, 1941-1963.	3.0	4
53	Characterizing and Modeling the Dropbox Workload. , 2014, , .		3
54	CodePLC: A Network Coding MAC Protocol for Power Line Communication. , 2016, , .		3

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55	Differential evolution based spatial filter optimization for brain-computer interface. , 2019, , .		3
56	A Low-Cost Electronic System for Human-Body Communication. Electronics (Switzerland), 2020, 9, 1928.	3.1	3
57	On the transaction dynamics of the Ethereum-based cryptocurrency. Journal of Complex Networks, 2020, 8, .	1.8	3
58	Tracking hardware evolution. , 2011, , .		2
59	Hardware Modules for Packet Interarrival Time Monitoring for Software Defined Measurements. , 2016, , .		2
60	Cost-Benefit Tradeoffs of Content Sharing in Personal Cloud Storage. , 2017, , .		2
61	Mapping critical illness early signs to priority alert transmission on wireless networks. , 2017, , .		2
62	Does OpenFlow Really Decouple The Data Plane from The Control Plane?. , 2018, , .		2
63	A dynamic network coding MAC protocol for power line communication. Telecommunication Systems, 2021, 77, 359-375.	2.5	2
64	Solving Multi-Agent Pickup and Delivery Problems Using a Genetic Algorithm. Lecture Notes in Computer Science, 2020, , 140-153.	1.3	2
65	Improving the attribute retrieval on ABAC using opportunistic caches for Fog-Based IoT Networks. Computer Networks, 2022, 213, 109000.	5.1	2
66	Verification of P2P live streaming systems using symmetry-based semiautomatic abstractions. , 2012, , .		1
67	Analyzing the Impact of Dropbox Content Sharing on an Academic Network. , 2015, , .		1
68	Impact of provider failures on the traffic at a university campus. , 2015, , .		1
69	A Dynamic Channel Allocation Protocol for Medical Environment under Multiple Base Stations. , 2017, , .		1
70	COPPER: Increasing Underwater Sensor Network Performance Through Nodes Cooperation. , 2018, , .		1
71	Characterizing Usage Patterns and Service Demand of a Two-Way Car-Sharing System. Communications in Computer and Information Science, 2019, , 3-17.	0.5	1
72	An Adaptation Aware Model to Predict Engagement on HTTP Adaptive Live Streaming. , 2019, , .		1

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73	BloomTime: space-efficient stateful tracking of time-dependent network performance metrics. Telecommunication Systems, 2020, 74, 201-223.	2.5	1
74	A dynamic channel allocation protocol for medical environment. Annales Des Telecommunications/Annals of Telecommunications, 2021, 76, 483-497.	2.5	1
75	Modeling large-scale live video streaming client behavior. Multimedia Systems, 2021, 27, 1101-1124.	4.7	1
76	A Study of Costs and Benefits of Content Sharing in Personal Cloud Storage. Journal of Network and Systems Management, 2021, 29, 1.	4.9	1
77	Single Electrode Energy on Clinical Brain-Computer Interface Challenge. Biomedical Signal Processing and Control, 2021, 70, 102993.	5.7	1
78	IEEE P21451-1-7: Providing More Efficient Network Services over MQTT-SN. , 2019, , .		1
79	Performance analysis and optimization of a distributed Video on Demand service. , 0, , .		0
80	A behaviour model of the SopCast users. , 2009, , .		0
81	A cache based algorithm to predict HDL modules faults. , 2011, , .		0
82	Impact of Provider Failures on the Traffic at a University Campus. , 2014, , .		0
83	ES-Aware. , 2014, , .		0
84	Analysis of realized peer-to-peer streaming topologies by Kronecker graphs. , 2014, , .		0
85	Influences of Facebook Torrent Dissemination in BitTorrent Swarms. , 2014, , .		0
86	An Extensible Access Control Architecture for Software Defined Networks based on X.812. , 2019, , .		0
87	You Shall Not Pass: Avoiding Spurious Paths in Shortest-Path Based Centralities in Multidimensional Complex Networks. IEEE Transactions on Network Science and Engineering, 2021, 8, 138-148.	6.4	0
88	Connectivity-based time centrality in time-varying graphs. Journal of Complex Networks, 2021, 9, .	1.8	0
89	Análise de um Serviço Virtual de Armazenamento que Explora Classes de Objetos na Nuvem e Padrões de Acesso. , 0, , .		0
90	Utilização de Blockchain na Rastreabilidade da Cadeia Produtiva do Leite. , 0, , .		0

#	ARTICLE	IF	CITATIONS
91	Simulação do Penny Attack no Ethereum e sua Identificação usando Classificadores. , 0, , .		0
92	Balanceamento Dinâmico de Carga para Funções Virtuais sobre Comutadores OpenFlow Heterogêneos. , 0, , .		0
93	Improving a Smart Environment with Wireless Network User Load Prediction. , 2021, , .		0
94	A Proposal of a Dynamic Routing Multicast Protocol for Visible Light Communication Networks. , 2021, , .		0