

# Stenio Fernandes

## List of Publications by Year in descending order

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57  
papers

1,039  
citations

840776

11  
h-index

996975

15  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1059  
citing authors

#	ARTICLE	IF	CITATIONS
1	KDN-Based Fault-Tolerant Scheduling for VNFs in Data Centers. IEEE Transactions on Network and Service Management, 2022, 19, 4905-4917.	4.9	0
2	NFV Data Centers: A Systematic Review. IEEE Access, 2020, 8, 51713-51735.	4.2	12
3	A Semantic-Based Policy Analysis Solution for the Deployment of NFV Services. IEEE Transactions on Network and Service Management, 2019, 16, 1005-1018.	4.9	7
4	Integrated NFV/SDN Architectures. ACM Computing Surveys, 2019, 51, 1-39.	23.0	102
5	SWAMP: an IoT-based Smart Water Management Platform for Precision Irrigation in Agriculture. , 2018, , .		47
6	Principles of Performance Evaluation of Computer Networks. , 2017, , 1-43.		1
7	Internet Traffic Profiling. , 2017, , 113-152.		1
8	Methods and Techniques for Measurements in the Internet. , 2017, , 45-73.		0
9	Improving video streaming over cellular networks with DASH-based device-to-device streaming. , 2017, , .		8
10	Performance analysis of Linux containers for high performance computing applications. International Journal of Grid and Utility Computing, 2017, 8, 321.	0.2	0
11	High-level modeling and application validation for SDN. , 2016, , .		7
12	Scalable Real-Time Flock Detection. , 2016, , .		2
13	DASH-based peer-to-peer video streaming in cellular networks. , 2016, , .		6
14	A Software Engineering Perspective on SDN Programmability. IEEE Communications Surveys and Tutorials, 2016, 18, 1255-1272.	39.4	46
15	Towards Efficient Automatic Scaling and Adaptive Cost-Optimized eHealth Services in Cloud. , 2015, , .		7
16	A fine-tuned control-theoretic approach for dynamic adaptive streaming over HTTP. , 2015, , .		3
17	Cooperative dynamic eHealth service placement in Mobile Cloud Computing. , 2015, , .		4
18	An adaptive random heuristic in virtual networks: Dependability analysis. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
19	Performance evaluation of OpenFlow in commodity wireless routers. , 2015, , .		5
20	Design and optimizations for efficient regular expression matching in DPI systems. Computer Communications, 2015, 61, 103-120.	5.1	15
21	Urban data collectors: A pragmatic approach to leveraging urban sensing. , 2015, , .		1
22	Performance Analysis of LXC for HPC Environments. , 2015, , .		23
23	Model-driven networking: A novel approach for SDN applications development. , 2015, , .		12
24	Dependable virtual network mapping. Computing (Vienna/New York), 2015, 97, 459-481.	4.8	13
25	A flexible DHT-based directory service for information management. Peer-to-Peer Networking and Applications, 2015, 8, 512-531.	3.9	2
26	Multi-objective optimization of a hybrid model for network traffic classification by combining machine learning techniques. , 2014, , .		8
27	Conducting Network Research in Large-Scale Platforms: Avoiding Pitfalls in PlanetLab. , 2014, , .		4
28	On the performance of DPI signature matching with dynamic priority. , 2014, , .		3
29	An Analytical View of Multiple CDNs Collaboration. , 2014, , .		1
30	Traffic classification with on-line ensemble method. , 2014, , .		1
31	GPU-oriented stream data mining traffic classification. , 2014, , .		2
32	How Software Aging affects SDN: A view on the controllers. , 2014, , .		11
33	E2ECloud: Composition and execution of end-to-end services in the cloud. , 2014, , .		4
34	Design and analysis of an IEEE 802.21-based mobility management architecture: a context-aware approach. Wireless Networks, 2013, 19, 187-205.	3.0	2
35	Network traffic classification using AdaBoost Dynamic. , 2013, , .		6
36	Comparative study of a Hybrid Model for network traffic identification and its optimization using Firefly Algorithm. , 2013, , .		7

#	ARTICLE	IF	CITATIONS
37	Virtual Network Resource Allocation Considering Dependability Issues. , 2013, , .		6
38	A look under the hood: Revealing performance issues in the DPI engine. , 2013, , .		3
39	An integrated composition model for collaboration in the cloud. , 2012, , .		2
40	Impact of Density, Load, and Mobility on the Performance of Routing Protocols in Vehicular Networks. , 2012, , .		1
41	Dependability assessment of virtualized networks. , 2012, , .		16
42	Efficient DFA grouping for traffic identification. , 2012, , .		1
43	Benchmarking of compressed DFAs for traffic identification: Decoupling data structures from models. , 2012, , .		2
44	Profiling core operations for elasticity in cloud environments. , 2012, , .		5
45	Deterministic Finite Automaton for scalable traffic identification: The power of compressing by range. , 2012, , .		14
46	Deep packet inspection tools and techniques in commodity platforms: Challenges and trends. Journal of Network and Computer Applications, 2012, 35, 1863-1878.	9.1	40
47	Vertical Mobility Management Architectures in Wireless Networks: A Comprehensive Survey and Future Directions. IEEE Communications Surveys and Tutorials, 2012, 14, 45-63.	39.4	114
48	Improving vertical handovers using IEEE 802.21 services and multicast addressing. , 2012, , .		0
49	An adaptive-predictive architecture for video streaming servers. Journal of Network and Computer Applications, 2011, 34, 1683-1694.	9.1	7
50	Characterizing signature sets for testing DPI systems. , 2011, , .		15
51	Better network traffic identification through the independent combination of techniques. Journal of Network and Computer Applications, 2010, 33, 433-446.	9.1	79
52	Traffic analysis and synthetic models of second life. Multimedia Systems, 2009, 15, 33-47.	4.7	13
53	A Survey on Internet Traffic Identification. IEEE Communications Surveys and Tutorials, 2009, 11, 37-52.	39.4	294
54	Slimming Down Deep Packet Inspection Systems. , 2009, , .		24

#	ARTICLE	IF	CITATIONS
55	A stratified traffic sampling methodology for seeing the big picture. Computer Networks, 2008, 52, 2677-2689.	5.1	18
56	A step towards understanding Joost IPTV. , 2008, , .		4
57	Accurate and fast replication on the generation of fractal network traffic using alternative probability models. , 2003, 5244, 154.		7