

Nalini Venkatasubramanian

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

1,118
citations

16
h-index

31
g-index

98
ext. papers

1,346
ext. citations

3.3
avg, IF

4.38
L-index

#	Paper	IF	Citations
79	Mobile Cloud Computing: A Survey, State of Art and Future Directions. <i>Mobile Networks and Applications</i> , 2014 , 19, 133-143	2.9	254
78	MuSIC: Mobility-Aware Optimal Service Allocation in Mobile Cloud Computing 2013 ,		96
77	MAPCloud: Mobile Applications on an Elastic and Scalable 2-Tier Cloud Architecture 2012 ,		94
76	ADDSSEN: Adaptive Data Processing and Dissemination for Drone Swarms in Urban Sensing. <i>IEEE Transactions on Computers</i> , 2016 , 1-1	2.5	46
75	Energy efficient data collection in distributed sensor environments 2004 ,		43
74	QUASAR. <i>SIGMOD Record</i> , 2004 , 33, 26-31	1.1	40
73	DYNAMO: A Cross-Layer Framework for End-to-End QoS and Energy Optimization in Mobile Handheld Devices. <i>IEEE Journal on Selected Areas in Communications</i> , 2007 , 25, 722-737	14.2	39
72	Multi-constraint dynamic access selection in always best connected networks 2005 ,		32
71	SCALE: Safe community awareness and alerting leveraging the internet of things. <i>IEEE Communications Magazine</i> , 2015 , 53, 27-34	9.1	30
70	Resilient dependable cyber-physical systems: a middleware perspective. <i>Journal of Internet Services and Applications</i> , 2012 , 3, 41-49	2.6	25
69	A cross-layer approach for power-performance optimization in distributed mobile systems		25
68	Adaptive Lookup of Open WiFi Using Crowdsensing. <i>IEEE/ACM Transactions on Networking</i> , 2016 , 24, 3634-3647	3.8	21
67	Supporting Internet-of-Things Analytics in a Fog Computing Platform 2017 ,		18
66	An Experimental Study on Wi-Fi Ad-Hoc Mode for Mobile Device-to-Device Video Delivery 2009 ,		17
65	Crowdsourced Mobile Data Transfer with Delay Bound. <i>ACM Transactions on Internet Technology</i> , 2016 , 16, 1-29	3.8	17
64	TIPPERS: A privacy cognizant IoT environment 2016 ,		16
63	xTune. <i>Transactions on Embedded Computing Systems</i> , 2012 , 11, 1-23	1.8	15

62	Video Dissemination over Hybrid Cellular and Ad Hoc Networks. <i>IEEE Transactions on Mobile Computing</i> , 2014 , 13, 274-286	4.6	14
61	CloudProtect: Managing Data Privacy in Cloud Applications 2012 ,		14
60	Spatiotemporal Scheduling for Crowd Augmented Urban Sensing 2018 ,		14
59	A formal model for reasoning about adaptive QoS-enabled middleware. <i>ACM Transactions on Software Engineering and Methodology</i> , 2004 , 13, 86-147	3.3	13
58	2016 ,		11
57	Partially Protected Caches to Reduce Failures Due to Soft Errors in Multimedia Applications. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2009 , 17, 1343-1347	2.6	10
56	Architecture for an Automatic Customized Warning System 2007 ,		10
55	Timeliness-Accuracy Balanced Collection of Dynamic Context Data. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2007 , 18, 158-171	3.7	10
54	Ride: A Resilient IoT Data Exchange Middleware Leveraging SDN and Edge Cloud Resources 2018 ,		10
53	Massive live video distribution using hybrid cellular and ad hoc networks 2011 ,		8
52	Application-aware integration of data collection and power management in wireless sensor networks. <i>Journal of Parallel and Distributed Computing</i> , 2007 , 67, 992-1006	4.4	8
51	Context-aware energy optimization for perpetual IoT-based safe communities. <i>Sustainable Computing: Informatics and Systems</i> , 2019 , 22, 96-106	3	7
50	A Fast and Robust Content-based Publish/Subscribe Architecture 2008 ,		7
49	MAPGrid: A New Architecture for Empowering Mobile Data Placement in Grid Environments 2007 ,		7
48	An adaptive IoT platform on budgeted 3G data plans. <i>Journal of Systems Architecture</i> , 2019 , 97, 65-76	5.5	7
47	On disaster information gathering in a complex shanty town terrain 2014 ,		6
46	GSFord: Towards a Reliable Geo-social Notification System 2012 ,		6
45	Improving sensor data delivery during disaster scenarios with resilient overlay networks 2013 ,		6

44	Privacy-preserving event detection in pervasive spaces 2009 ,		6
43	Design and Implementation of a Middleware for Sentient Spaces 2007 ,		6
42	A unified stochastic model for energy management in solar-powered embedded systems 2015 ,		5
41	CCD: A Distributed Publish/Subscribe Framework for Rich Content Formats. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2012 , 23, 844-852	3-7	5
40	Fault Tolerant Evaluation of Continuous Selection Queries over Sensor Data. <i>International Journal of Distributed Sensor Networks</i> , 2009 , 5, 338-360	1-7	5
39	2016 ,		5
38	Resilient Overlays for IoT-Based Community Infrastructure Communications 2016 ,		5
37	FireDeX 2018 ,		5
36	Edge Caching for Enriched Notifications Delivery in Big Active Data 2018 ,		4
35	Optimizing offline access to social network content on mobile devices 2014 ,		4
34	Smart communications via a tree-based overlay over multiple and heterogeneous (TOMH) spontaneous networks 2013 ,		4
33	Proximiter: Enabling mobile proximity-based content sharing on portable devices 2009 ,		4
32	A Semantics-Based Approach for Speech Annotation of Images. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2011 , 23, 1373-1387	4.2	4
31	Dynamic Load Balancing for Cluster-Based Publish/Subscribe System 2009 ,		4
30	Constraint Refinement for Online Verifiable Cross-Layer System Adaptation 2008 ,		4
29	Augmenting in-situ with mobile sensing for adaptive monitoring of water distribution networks 2019 ,		3
28	Efficient and Reliable Application Layer Multicast for Flash Dissemination. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2014 , 25, 2571-2582	3-7	3
27	Distributed flow optimization control for energy-harvesting wireless sensor networks 2014 ,		3

26	Tie-set Based Fault Tolerance for autonomous recovery of double-link failures 2013 ,		3
25	Practical experiences in enabling and ensuring quality sensing in emergency response applications 2010 ,		3
24	Using Semantics for Speech Annotation of Images. <i>Proceedings - International Conference on Data Engineering, 2009</i> ,	2	3
23	A reflective middleware architecture for simulation integration 2009 ,		3
22	HybCAST: Rich Content Dissemination in Hybrid Cellular and 802.11 Ad Hoc Networks 2012 ,		3
21	Sensor Scheduling for Aggregate Monitoring in Wireless Sensor Networks. <i>International Conference on Scientific and Statistical Database Management: [proceedings] International Conference on Scientific and Statistical Database Management, 2007</i> ,		3
20	Sensor data collection with expected reliability guarantees		3
19	Adaptive Mediation for Data Exchange in IoT Systems 2019 ,		3
18	Data collection and upload under dynamicity in smart community Internet-of-Things deployments. <i>Pervasive and Mobile Computing, 2017</i> , 42, 166-186	3.5	2
17	Software-defined cyber-physical multinetworks 2014 ,		2
16	Adaptive sensing using internet-of-things with constrained communications 2017 ,		2
15	Simulation integration: using multidatabase systems concepts. <i>Simulation, 2014</i> , 90, 1268-1289	1.2	2
14	Gateway designation for timely communications in instant mesh networks 2010 ,		1
13	Tailoring group membership consistency for mobile networks 2011 ,		1
12	The software EBox: Integrated information for situational awareness 2009 ,		1
11	Mobile Data Overlay (MDO): A Data Placement Paradigm for Mobile Applications 2008 ,		1
10	Overload-Driven Mobility-Aware Cache Management in Wireless Environments 2006 ,		1
9	Directory-based composite routing and scheduling policies for dynamic multimedia environments. <i>Multimedia Systems, 2004</i> , 9, 398-410	2.2	1

8	Analytics-Aware Storage of Surveillance Videos: Implementation and Optimization 2020 ,	1
7	Multi-Sensor Calibration Planning in IoT-Enabled Smart Spaces 2019 ,	1
6	An Implementation Experience with SDN-enabled IoT Data Exchange Middleware 2018 ,	1
5	PrioDeX. <i>ACM Transactions on Internet of Things</i> , 2021 , 2, 1-32	2.2 0
4	A Formal Methodology for Compositional Cross-Layer Optimization. <i>Lecture Notes in Computer Science</i> , 2011 , 207-222	0.9
3	Multi-level feature driven storage management of surveillance videos. <i>Pervasive and Mobile Computing</i> , 2021 , 76, 101441	3.5
2	REAM: A Framework for Resource Efficient Adaptive Monitoring of Community Spaces. <i>Pervasive and Mobile Computing</i> , 2021 , 76, 101459	3.5
1	Quest: Privacy-Preserving Monitoring of Network Data: A System for Organizational Response to Pandemics. <i>IEEE Transactions on Services Computing</i> , 2022 , 1-1	4.8