

Nalini Venkatasubramanian

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

1,520
citations

686830

13
h-index

500791

28
g-index

98
all docs

98
docs citations

98
times ranked

1501
citing authors

#	ARTICLE	IF	CITATIONS
1	Mobile Cloud Computing: A Survey, State of Art and Future Directions. Mobile Networks and Applications, 2014, 19, 133-143.	2.2	315
2	MuSIC: Mobility-Aware Optimal Service Allocation in Mobile Cloud Computing. , 2013, , .		113
3	MAPCloud: Mobile Applications on an Elastic and Scalable 2-Tier Cloud Architecture. , 2012, , .		110
4	ADDSSEN: Adaptive Data Processing and Dissemination for Drone Swarms in Urban Sensing. IEEE Transactions on Computers, 2016, , 1-1.	2.4	58
5	Energy efficient data collection in distributed sensor environments. , 2004, , .		57
6	DYNAMO: A Cross-Layer Framework for End-to-End QoS and Energy Optimization in Mobile Handheld Devices. IEEE Journal on Selected Areas in Communications, 2007, 25, 722-737.	9.7	50
7	QUASAR. SIGMOD Record, 2004, 33, 26-31.	0.7	49
8	Multi-constraint dynamic access selection in always best connected networks. , 2005, , .		41
9	SCALE: Safe community awareness and alerting leveraging the internet of things. IEEE Communications Magazine, 2015, 53, 27-34.	4.9	38
10	Resilient dependable cyber-physical systems: a middleware perspective. Journal of Internet Services and Applications, 2012, 3, 41-49.	1.6	36
11	A Cross-Layer Approach for Power-Performance Optimization in Distributed Mobile Systems. , 0, , .		33
12	A formal model for reasoning about adaptive QoS-enabled middleware. ACM Transactions on Software Engineering and Methodology, 2004, 13, 86-147.	4.8	30
13	Supporting Internet-of-Things Analytics in a Fog Computing Platform. , 2017, , .		27
14	Adaptive Lookup of Open WiFi Using Crowdsensing. IEEE/ACM Transactions on Networking, 2016, 24, 3634-3647.	2.6	24
15	Spatiotemporal Scheduling for Crowd Augmented Urban Sensing. , 2018, , .		24
16	An Experimental Study on Wi-Fi Ad-Hoc Mode for Mobile Device-to-Device Video Delivery. , 2009, , .		23
17	xTune. Transactions on Embedded Computing Systems, 2012, 11, 1-23.	2.1	20
18	The Scale2 Multi-Network Architecture for IoT-Based Resilient Communities. , 2016, , .		20

#	ARTICLE	IF	CITATIONS
19	Video Dissemination over Hybrid Cellular and Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2014, 13, 274-286.	3.9	19
20	TIPPERS: A privacy cognizant IoT environment. , 2016, , .		19
21	Crowdsourced Mobile Data Transfer with Delay Bound. ACM Transactions on Internet Technology, 2016, 16, 1-29.	3.0	19
22	An adaptive IoT platform on budgeted 3G data plans. Journal of Systems Architecture, 2019, 97, 65-76.	2.5	17
23	Ride: A Resilient IoT Data Exchange Middleware Leveraging SDN and Edge Cloud Resources. , 2018, , .		16
24	CloudProtect: Managing Data Privacy in Cloud Applications. , 2012, , .		15
25	Context-aware energy optimization for perpetual IoT-based safe communities. Sustainable Computing: Informatics and Systems, 2019, 22, 96-106.	1.6	14
26	Timeliness-Accuracy Balanced Collection of Dynamic Context Data. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 158-171.	4.0	13
27	FireDeX. , 2018, , .		13
28	Sensor Data Collection with Expected Reliability Guarantees. , 0, , .		12
29	Sensor Scheduling for Aggregate Monitoring in Wireless Sensor Networks. International Conference on Scientific and Statistical Database Management: [proceedings] International Conference on Scientific and Statistical Database Management, 2007, , .	0.0	12
30	Application-aware integration of data collection and power management in wireless sensor networks. Journal of Parallel and Distributed Computing, 2007, 67, 992-1006.	2.7	12
31	Proximiter: Enabling mobile proximity-based content sharing on portable devices. , 2009, , .		12
32	Architecture for an Automatic Customized Warning System. , 2007, , .		11
33	Partially Protected Caches to Reduce Failures Due to Soft Errors in Multimedia Applications. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2009, 17, 1343-1347.	2.1	11
34	A Fast and Robust Content-based Publish/Subscribe Architecture. , 2008, , .		10
35	Massive live video distribution using hybrid cellular and ad hoc networks. , 2011, , .		10
36	MAPGrid: A New Architecture for Empowering Mobile Data Placement in Grid Environments. , 2007, , .		9

#	ARTICLE	IF	CITATIONS
37	CCD: A Distributed Publish/Subscribe Framework for Rich Content Formats. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 844-852.	4.0	9
38	Improving sensor data delivery during disaster scenarios with resilient overlay networks. , 2013, , .		9
39	Optimizing offline access to social network content on mobile devices. , 2014, , .		9
40	Design and Implementation of a Middleware for Sentient Spaces. , 2007, , .		8
41	On disaster information gathering in a complex shanty town terrain. , 2014, , .		8
42	Upload Planning for Mobile Data Collection in Smart Community Internet-of-Things Deployments. , 2016, , .		8
43	Privacy-preserving event detection in pervasive spaces. , 2009, , .		7
44	A Semantics-Based Approach for Speech Annotation of Images. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 1373-1387.	4.0	7
45	GSFord: Towards a Reliable Geo-social Notification System. , 2012, , .		7
46	Resilient Overlays for IoT-Based Community Infrastructure Communications. , 2016, , .		7
47	Edge Caching for Enriched Notifications Delivery in Big Active Data. , 2018, , .		7
48	A Scalable Approach for Dynamic Evacuation Routing in Large Smart Buildings. , 2019, , .		7
49	Gateway designation for timely communications in instant mesh networks. , 2010, , .		6
50	A unified stochastic model for energy management in solar-powered embedded systems. , 2015, , .		6
51	Augmenting in-situ with mobile sensing for adaptive monitoring of water distribution networks. , 2019, , .		6
52	A reflective middleware architecture for simulation integration. , 2009, , .		5
53	Fault Tolerant Evaluation of Continuous Selection Queries over Sensor Data. International Journal of Distributed Sensor Networks, 2009, 5, 338-360.	1.3	5
54	Constraint Refinement for Online Verifiable Cross-Layer System Adaptation. , 2008, , .		4

#	ARTICLE	IF	CITATIONS
55	Dynamic Load Balancing for Cluster-Based Publish/Subscribe System. , 2009, , .		4
56	Smart communications via a tree-based overlay over multiple and heterogeneous (TOMH) spontaneous networks. , 2013, , .		4
57	Efficient and Reliable Application Layer Multicast for Flash Dissemination. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 2571-2582.	4.0	4
58	AquaEIS. , 2019, , .		4
59	PROACTIVE ENERGY-AWARE VIDEO STREAMING TO MOBILE HANDHELD DEVICES. , 2003, , .		3
60	Using Semantics for Speech Annotation of Images. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	3
61	The software EBox: Integrated information for situational awareness. , 2009, , .		3
62	Practical experiences in enabling and ensuring quality sensing in emergency response applications. , 2010, , .		3
63	Tailoring group membership consistency for mobile networks. , 2011, , .		3
64	HybCAST: Rich Content Dissemination in Hybrid Cellular and 802.11 Ad Hoc Networks. , 2012, , .		3
65	Tie-set Based Fault Tolerance for autonomous recovery of double-link failures. , 2013, , .		3
66	Simulation integration: using multidatabase systems concepts. Simulation, 2014, 90, 1268-1289.	1.1	3
67	Distributed flow optimization control for energy-harvesting wireless sensor networks. , 2014, , .		3
68	Software-defined cyber-physical multinetworks. , 2014, , .		3
69	Data collection and upload under dynamicity in smart community Internet-of-Things deployments. Pervasive and Mobile Computing, 2017, 42, 166-186.	2.1	3
70	Adaptive sensing using internet-of-things with constrained communications. , 2017, , .		3
71	Multi-Sensor Calibration Planning in IoT-Enabled Smart Spaces. , 2019, , .		3
72	PrioDeX. ACM Transactions on Internet of Things, 2021, 2, 1-32.	3.4	3

#	ARTICLE	IF	CITATIONS
73	Adaptive Mediation for Data Exchange in IoT Systems. , 2019, , .		3
74	Time-sensitive computation of aggregate functions over distributed imprecise data. , 0, , .		2
75	Directory-based composite routing and scheduling policies for dynamic multimedia environments. Multimedia Systems, 2004, 9, 398-410.	3.0	2
76	Mobile Data Overlay (MDO): A Data Placement Paradigm for Mobile Applications. , 2008, , .		2
77	Poster abstract: Enhancing reliability of community Internet-of-Things deployments with mobility. , 2018, , .		2
78	SmartParcels. , 2021, , .		2
79	Analytics-Aware Storage of Surveillance Videos: Implementation and Optimization. , 2020, , .		2
80	Overload-Driven Mobility-Aware Cache Management in Wireless Environments. , 2006, , .		1
81	Overload-Driven Mobility-Aware Cache Management in Wireless Environments. , 2006, , .		1
82	SURCH: Distributed Aggregation over Wireless Sensor Networks. Database Engineering and Application Symposium (IDEAS), Proceedings of the International, 2006, , .	0.0	1
83	PBCA - Prediction Based Channel Allocation. , 2007, , .		1
84	PassItOn: An Opportunistic Messaging Prototype on Mobile Devices. , 2009, , .		1
85	Middleware solutions for integrated simulation environments. , 2010, , .		1
86	RichNote: Adaptive Selection and Delivery of Rich Media Notifications to Mobile Users. , 2016, , .		1
87	An Implementation Experience with SDN-enabled IoT Data Exchange Middleware. , 2018, , .		1
88	Multi-Network Provisioning for Perpetual Operations in IoT-Enabled Smart Spaces. , 2020, , .		1
89	Multi-level feature driven storage management of surveillance videos. Pervasive and Mobile Computing, 2021, 76, 101441.	2.1	1
90	SmartSource: A Mobile Q&A Middleware Powered by Crowdsourcing. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
91	Prevent Potential Hazards Caused by Medical Device Time Differences in Integrated Clinical Environments. , 2019, , .		0
92	REAM: A Framework for Resource Efficient Adaptive Monitoring of Community Spaces. Pervasive and Mobile Computing, 2021, 76, 101459.	2.1	0
93	A Formal Methodology for Compositional Cross-Layer Optimization. Lecture Notes in Computer Science, 2011, , 207-222.	1.0	0
94	AquaSCALE - Exploring Resilience of Community Water Infrastructures. , 2019, , .		0
95	SCARF. , 2019, , .		0
96	EnviroSCALE. , 2019, , .		0
97	DragonFly: Drone-Assisted High-Rise Monitoring for Fire Safety. , 2021, , .		0
98	Quest: Privacy-Preserving Monitoring of Network Data: A System for Organizational Response to Pandemics. IEEE Transactions on Services Computing, 2022, 15, 1233-1250.	3.2	0