

Tao Gu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3041988/publications.pdf>

Version: 2024-02-01

139
papers

5,103
citations

201575

27
h-index

161767

54
g-index

139
all docs

139
docs citations

139
times ranked

4075
citing authors

#	ARTICLE	IF	CITATIONS
1	A service-oriented middleware for building context-aware services. Journal of Network and Computer Applications, 2005, 28, 1-18.	5.8	729
2	Ontology based context modeling and reasoning using OWL. , 0, , .		352
3	Human respiration detection with commodity wifi devices. , 2016, , .		316
4	Toward an OSGi-Based Infrastructure for Context-Aware Applications. IEEE Pervasive Computing, 2004, 3, 66-74.	1.1	240
5	Recognizing multi-user activities using wearable sensors in a smart home. Pervasive and Mobile Computing, 2011, 7, 287-298.	2.1	135
6	A Reliability-Augmented Particle Filter for Magnetic Fingerprinting Based Indoor Localization on Smartphone. IEEE Transactions on Mobile Computing, 2016, 15, 1877-1892.	3.9	126
7	FullBreathe. , 2018, 2, 1-19.		123
8	A Pattern Mining Approach to Sensor-Based Human Activity Recognition. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 1359-1372.	4.0	115
9	A middleware for building context-aware mobile services. , 0, , .		112
10	C-FMCW Based Contactless Respiration Detection Using Acoustic Signal. , 2018, 1, 1-20.		105
11	AudioGest. , 2016, , .		98
12	An unsupervised approach to activity recognition and segmentation based on object-use fingerprints. Data and Knowledge Engineering, 2010, 69, 533-544.	2.1	96
13	A hierarchical approach to real-time activity recognition in body sensor networks. Pervasive and Mobile Computing, 2012, 8, 115-130.	2.1	96
14	Object relevance weight pattern mining for activity recognition and segmentation. Pervasive and Mobile Computing, 2010, 6, 43-57.	2.1	95
15	Season: Shelving interference and joint identification in large-scale RFID systems. , 2011, , .		89
16	MaLoc. , 2014, , .		84
17	Compressive Representation for Device-Free Activity Recognition with Passive RFID Signal Strength. IEEE Transactions on Mobile Computing, 2018, 17, 293-306.	3.9	75
18	Context-aware middleware for pervasive elderly homecare. IEEE Journal on Selected Areas in Communications, 2009, 27, 510-524.	9.7	74

#	ARTICLE	IF	CITATIONS
19	FTrack. , 2019, , .		74
20	epSICAR: An Emerging Patterns based approach to sequential, interleaved and Concurrent Activity Recognition. , 2009, , .		73
21	Managing Quality of Context in Pervasive Computing. Proceedings International Conference on Quality Software, 2006, , .	0.0	70
22	FingerDraw. , 2020, 4, 1-27.		59
23	Converting Your Thoughts to Texts: Enabling Brain Typing via Deep Feature Learning of EEG Signals. , 2018, , .		53
24	Microstructure evolution and mechanical properties of laser additive manufacturing of high strength Al-Cu-Mg alloy. Optics and Laser Technology, 2019, 112, 140-150.	2.2	53
25	Contactless Respiration Monitoring Using Ultrasound Signal With Off-the-Shelf Audio Devices. IEEE Internet of Things Journal, 2019, 6, 2959-2973.	5.5	52
26	FTrack: Parallel Decoding for LoRa Transmissions. IEEE/ACM Transactions on Networking, 2020, 28, 2573-2586.	2.6	52
27	Sensor-Based Human Activity Recognition in a Multi-user Scenario. Lecture Notes in Computer Science, 2009, , 78-87.	1.0	51
28	An Updatable Holographic Display for 3D Visualization. Journal of Display Technology, 2008, 4, 424-430.	1.3	45
29	Toward a Wearable RFID System for Real-Time Activity Recognition Using Radio Patterns. IEEE Transactions on Mobile Computing, 2017, 16, 228-242.	3.9	44
30	WiFi-Sleep: Sleep Stage Monitoring Using Commodity Wi-Fi Devices. IEEE Internet of Things Journal, 2021, 8, 13900-13913.	5.5	43
31	Scalable floor localization using barometer on smartphone. Wireless Communications and Mobile Computing, 2016, 16, 2557-2571.	0.8	42
32	A fast and fully-automated deep-learning approach for accurate hemorrhage segmentation and volume quantification in non-contrast whole-head CT. Scientific Reports, 2020, 10, 19389.	1.6	42
33	Supporting pervasive computing applications with active context fusion and semantic context delivery. Pervasive and Mobile Computing, 2010, 6, 21-42.	2.1	41
34	Traveling Officer Problem: Managing Car Parking Violations Efficiently Using Sensor Data. IEEE Internet of Things Journal, 2018, 5, 802-810.	5.5	40
35	Metabolite concentration ratios in thalami of patients with migraine and trigeminal neuralgia measured with1H-MRS. Neurological Research, 2008, 30, 229-233.	0.6	37
36	Learning from less for better. , 2016, , .		36

#	ARTICLE	IF	CITATIONS
37	L-MAC: A wake-up time self-learning MAC protocol for wireless sensor networks. <i>Computer Networks</i> , 2016, 105, 33-46.	3.2	36
38	Exploring traffic congestion correlation from multiple data sources. <i>Pervasive and Mobile Computing</i> , 2017, 41, 470-483.	2.1	35
39	Embracing Corruption Burstiness: Fast Error Recovery for ZigBee under Wi-Fi Interference. <i>IEEE Transactions on Mobile Computing</i> , 2017, 16, 2518-2530.	3.9	32
40	Mining Emerging Patterns for recognizing activities of multiple users in pervasive computing. , 2009, , .		30
41	Recognizing Multiuser Activities Using Wireless Body Sensor Networks. <i>IEEE Transactions on Mobile Computing</i> , 2011, 10, 1618-1631.	3.9	30
42	RF-Care: Device-Free Posture Recognition for Elderly People Using A Passive RFID Tag Array. , 2015, , .		30
43	Real-Time Activity Recognition in Wireless Body Sensor Networks: From Simple Gestures to Complex Activities. , 2010, , .		29
44	Who should I invite for my party?. , 2015, , .		29
45	Supporting Serendipitous Social Interaction Using Human Mobility Prediction. <i>IEEE Transactions on Human-Machine Systems</i> , 2015, 45, 811-818.	2.5	28
46	FTrack: Infrastructure-free floor localization via mobile phone sensing. , 2012, , .		27
47	UHRF1 gene silencing inhibits cell proliferation and promotes cell apoptosis in human cervical squamous cell carcinoma CaSki cells. <i>Journal of Ovarian Research</i> , 2016, 9, 42.	1.3	27
48	B-Loc: Scalable Floor Localization Using Barometer on Smartphone. , 2014, , .		24
49	An Adaptive Low-Power Listening Protocol for Wireless Sensor Networks in Noisy Environments. <i>IEEE Systems Journal</i> , 2018, 12, 2162-2173.	2.9	23
50	Acupuncture therapy in treating migraine: results of a magnetic resonance spectroscopy imaging study. <i>Journal of Pain Research</i> , 2018, Volume 11, 889-900.	0.8	23
51	AirContour. <i>ACM Transactions on Sensor Networks</i> , 2019, 15, 1-25.	2.3	23
52	DeepKey. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2020, 11, 1-24.	2.9	23
53	TagFall: Towards Unobstructive Fine-Grained Fall Detection based on UHF Passive RFID Tags. , 2015, , .		23
54	Accurate and Generic Sender Selection for Bulk Data Dissemination in Low-Power Wireless Networks. <i>IEEE/ACM Transactions on Networking</i> , 2017, 25, 948-959.	2.6	22

#	ARTICLE	IF	CITATIONS
55	Spatial Multiplexing for Non-Line-of-Sight Light-to-Camera Communications. IEEE Transactions on Mobile Computing, 2019, 18, 2660-2671.	3.9	22
56	Device-free indoor localization and tracking through Human-Object Interactions. , 2016, , .		20
57	A Mixed Transmission Strategy to Achieve Energy Balancing in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2017, 16, 2111-2122.	6.1	19
58	Interference-Aware SaaS User Allocation Game for Edge Computing. IEEE Transactions on Cloud Computing, 2022, 10, 1888-1899.	3.1	19
59	Materials for an Updatable Holographic 3D Display. Journal of Display Technology, 2010, 6, 510-516.	1.3	18
60	Mining Traffic Congestion Correlation between Road Segments on GPS Trajectories. , 2016, , .		18
61	SateLoc: A Virtual Fingerprinting Approach to Outdoor LoRa Localization using Satellite Images. , 2020, , .		18
62	BloomCast: Efficient and Effective Full-Text Retrieval in Unstructured P2P Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 232-241.	4.0	17
63	Modeling link correlation in low-power wireless networks. , 2015, , .		17
64	HiMeter: Telling You the Height Rather than the Altitude. Sensors, 2018, 18, 1712.	2.1	17
65	LiteNap: Downclocking LoRa Reception. , 2020, , .		17
66	Schema matching for context-aware computing. , 2008, , .		16
67	F-Loc: Floor localization via crowdsourcing. , 2014, , .		16
68	CoCo+: Exploiting correlated core for energy efficient dissemination in wireless sensor networks. Ad Hoc Networks, 2016, 37, 404-417.	3.4	16
69	Towards a flexible service discovery. Journal of Network and Computer Applications, 2005, 28, 233-248.	5.8	15
70	Information retrieval in schema-based P2P systems using one-dimensional semantic space. Computer Networks, 2007, 51, 4543-4560.	3.2	15
71	Signal transduction mediated by endostatin directly modulates cellular function of lung cancer cellsinÂvitro. Cancer Science, 2007, 98, 830-837.	1.7	13
72	Peer-to-Peer Context Reasoning in Pervasive Computing Environments. , 2008, , .		13

#	ARTICLE	IF	CITATIONS
73	Secure RFID Identification and Authentication with Triggered Hash Chain Variants. , 2008, , .		12
74	Freedom: Online Activity Recognition via Dictionary-Based Sparse Representation of RFID Sensing Data. , 2015, , .		12
75	Accurate Corruption Estimation in ZigBee under Cross-Technology Interference. IEEE Transactions on Mobile Computing, 2019, 18, 2243-2256.	3.9	12
76	Increased metabolite concentration in migraine rat model by proton MR spectroscopy in vivo and ex vivo. Neurological Sciences, 2008, 29, 337-342.	0.9	11
77	Rendezvous Cost-Aware Opportunistic Routing in Heterogeneous Duty-Cycled Wireless Sensor Networks. IEEE Access, 2019, 7, 121825-121840.	2.6	11
78	Smart Diagnosis: Deep Learning Boosted Driver Inattention Detection and Abnormal Driving Prediction. IEEE Internet of Things Journal, 2022, 9, 4076-4089.	5.5	11
79	Infrastructure-Free Floor Localization Through Crowdsourcing. Journal of Computer Science and Technology, 2015, 30, 1249-1273.	0.9	10
80	Target-Aware, Transmission Power-Adaptive, and Collision-Free Data Dissemination in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2015, 14, 6911-6925.	6.1	10
81	An Analytical Model for Coding-Based Reprogramming Protocols in Lossy Wireless Sensor Networks. IEEE Transactions on Computers, 2017, 66, 24-37.	2.4	10
82	Towards Accurate Corruption Estimation in ZigBee Under Cross-Technology Interference. , 2017, , .		10
83	Recognizing Parkinsonian Gait Pattern by Exploiting Fine-Grained Movement Function Features. ACM Transactions on Intelligent Systems and Technology, 2017, 8, 1-22.	2.9	9
84	BTrack: Using Barometer for Energy Efficient Location Tracking on Mountain Roads. IEEE Access, 2018, 6, 66998-67009.	2.6	9
85	Age-Related Whole-Brain Structural Changes in Relation to Cardiovascular Risks Across the Adult Age Spectrum. Frontiers in Aging Neuroscience, 2019, 11, 85.	1.7	9
86	Exploiting link correlation for core-based dissemination in wireless sensor networks. , 2014, , .		8
87	SpiderWalk. , 2018, 2, 1-30.		8
88	Your Eyes Reveal Your Secrets: An Eye Movement Based Password Inference on Smartphone. IEEE Transactions on Mobile Computing, 2020, 19, 2714-2730.	3.9	8
89	LiteNap: Downclocking LoRa Reception. IEEE/ACM Transactions on Networking, 2021, 29, 2632-2645.	2.6	8
90	A Novel Metric for Opportunistic Routing in Heterogenous Duty-Cycled Wireless Sensor Networks. , 2015, , .		7

#	ARTICLE	IF	CITATIONS
91	FastDesk: A remote desktop virtualization system for multi-tenant. Future Generation Computer Systems, 2018, 81, 478-491.	4.9	7
92	Minimum Cost Deployment of Bistatic Radar Sensor for Perimeter Barrier Coverage. Sensors, 2019, 19, 225.	2.1	7
93	A Wearable RFID System for Real-Time Activity Recognition Using Radio Patterns. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 370-383.	0.2	7
94	MDLdroidLite. , 2020, , .		7
95	Multi-User Activity Recognition in a Smart Home. Atlantis Ambient and Pervasive Intelligence, 2011, , 59-81.	0.2	6
96	Energy balanced data collection in Wireless Sensor Networks. , 2012, , .		6
97	Making Sense of Doppler Effect for Multi-Modal Hand Motion Detection. IEEE Transactions on Mobile Computing, 2018, 17, 2087-2100.	3.9	6
98	Reliability of the <scp>MRI</scp>-based Brain Atrophy and Lesion Index in the evaluation of whole-brain structural health. Aging Medicine (Milton (N S W)), 2018, 1, 125-132.	0.9	6
99	SELoc: Collect Your Location Data Using Only a Barometer Sensor. IEEE Access, 2019, 7, 88705-88717.	2.6	6
100	Connected Target μ-probability Coverage in WSNs With Directional Probabilistic Sensors. IEEE Systems Journal, 2020, 14, 3399-3409.	2.9	6
101	Data Management for Context-Aware Computing. , 2008, , .		5
102	Minimizing inter-server communications by exploiting self-similarity in online social networks. , 2012, , .		5
103	Assessing User Mental Workload for Smartphone Applications With Built-In Sensors. IEEE Pervasive Computing, 2019, 18, 59-70.	1.1	5
104	SMinder: Detect a Left-behind Phone using Sensor-based Context Awareness. Mobile Networks and Applications, 2019, 24, 171-183.	2.2	5
105	Exploiting Link Diversity for Performance-Aware and Repeatable Simulation in Low-Power Wireless Networks. IEEE/ACM Transactions on Networking, 2020, 28, 2545-2558.	2.6	5
106	Complete Bipartite Anonymity: Confusing Anonymous Mobility Traces for Location Privacy. , 2012, , .		4
107	Towards energy-balanced data transmission for lifetime optimization in wireless sensor networks. , 2016, , .		4
108	Integrating Wi-Fi and magnetic field for fingerprinting based indoor positioning system. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
109	Automation of CT-based haemorrhagic stroke assessment for improved clinical outcomes: study protocol and design. <i>BMJ Open</i> , 2018, 8, e020260.	0.8	4
110	GazeRevealer. , 2018, , .		4
111	MDLdroidLite: A Release-and-Inhibit Control Approach to Resource-Efficient Deep Neural Networks on Mobile Devices. <i>IEEE Transactions on Mobile Computing</i> , 2022, 21, 3670-3686.	3.9	4
112	PCube: Scaling LoRa Concurrent Transmissions with Reception Diversities. <i>ACM Transactions on Sensor Networks</i> , 2022, 18, 1-25.	2.3	4
113	Ontology Modeling of a Dynamic Protocol Stack. <i>Local Computer Networks (LCN), Proceedings of the IEEE Conference on</i> , 2006, , .	0.0	3
114	Crowdsourced smartphone sensing for localization in metro trains. , 2014, , .		3
115	ReLog: A systematic approach for supporting efficient reprogramming in wireless sensor networks. <i>Journal of Parallel and Distributed Computing</i> , 2017, 102, 132-148.	2.7	3
116	Surviving screen-off battery through out-of-band Wi-Fi coordination. , 2017, , .		3
117	Approximate Optimal Deployment of Barrier Coverage on Heterogeneous Bistatic Radar Sensors. <i>Sensors</i> , 2019, 19, 2403.	2.1	3
118	MDLdroid: A ChainSGD-Reduce Approach to Mobile Deep Learning for Personal Mobile Sensing. <i>IEEE/ACM Transactions on Networking</i> , 2022, 30, 134-147.	2.6	3
119	Application Based Distance Measurement for Context Retrieval in Ubiquitous Computing. , 2007, , .		2
120	JointCache: Collaborative path confusion through lightweight P2P communication. , 2013, , .		2
121	Complete Bipartite Anonymity for Location Privacy. <i>Journal of Computer Science and Technology</i> , 2014, 29, 1094-1110.	0.9	2
122	PrivacyPalisade: Evaluating app permissions and building privacy into smartphones. , 2015, , .		2
123	HOI-Loc: Towards unobstructive human localization with probabilistic multi-sensor fusion. , 2016, , .		2
124	An Audio-based Hierarchical Smoking Behavior Detection System Based on A Smart Neckband Platform. , 2016, , .		2
125	Enabling Out-of-Band Coordination of Wi-Fi Communications on Smartphones. <i>IEEE/ACM Transactions on Networking</i> , 2019, 27, 518-531.	2.6	2
126	Cantor: Improving Goodput in LoRa Concurrent Transmission. <i>IEEE Internet of Things Journal</i> , 2021, 8, 1519-1532.	5.5	2

#	ARTICLE	IF	CITATIONS
127	PRComm. , 2021, , .		2
128	A Semantic P2P Framework for Building Context-Aware Applications in Multiple Smart Spaces. , 2007, , 553-564.		2
129	A two-tier semantic overlay network for P2P search. , 2007, , .		1
130	Gateways of physical spaces in context-aware computing. , 2008, , .		1
131	An Ontology-Based P2P Network for Semantic Search. International Journal of Grid and High Performance Computing, 2009, 1, 26-39.	0.7	1
132	Audio-on-demand over wireless sensor networks. , 2012, , .		1
133	Towards Repeatable Wireless Network Simulation Using Performance Aware Markov Model. , 2018, , .		1
134	DynaKey: Dynamic Keystroke Tracking Using a Head-Mounted Camera Device. IEEE Internet of Things Journal, 2022, 9, 6563-6577.	5.5	1
135	Editorial for MobiQuitous 2011 Special Issue. Mobile Networks and Applications, 2013, 18, 293-294.	2.2	0
136	Special Issue on Body Area Networks. Mobile Networks and Applications, 2014, 19, 683-683.	2.2	0
137	Direction-Aware, Audio-Based Pedestrian Relative Positioning by Swing Induced Doppler Shift. , 2017, , .		0
138	Exploiting Delay-Aware Load Balance for Scalable 802.11 PSM in Crowd Event Environments. Wireless Communications and Mobile Computing, 2017, 2017, 1-12.	0.8	0
139	An Ontology-Based P2P Network for Semantic Search. , 0, , 299-312.		0