Tao Gu

List of Publications by Year
in descending order

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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	Interference-Aware SaaS User Allocation Game for Edge Computing. IEEE Transactions on Cloud Computing, 2022, 10, 1888-1899.	3.1	19
2	DynaKey: Dynamic Keystroke Tracking Using a Head-Mounted Camera Device. IEEE Internet of Things Journal, 2022, 9, 6563-6577.	5.5	1
3	Smart Diagnosis: Deep Learning Boosted Driver Inattention Detection and Abnormal Driving Prediction. IEEE Internet of Things Journal, 2022, 9, 4076-4089.	5.5	11
4	MDLdroid: A ChainSGD-Reduce Approach to Mobile Deep Learning for Personal Mobile Sensing. IEEE/ACM Transactions on Networking, 2022, 30, 134-147.	2.6	3
5	MDLdroidLite: A Release-and-Inhibit Control Approach to Resource-Efficient Deep Neural Networks on Mobile Devices. IEEE Transactions on Mobile Computing, 2022, 21, 3670-3686.	3.9	4
6	PCube: Scaling LoRa Concurrent Transmissions with Reception Diversities. ACM Transactions on Sensor Networks, 2022, 18, 1-25.	2.3	4
7	Cantor: Improving Goodput in LoRa Concurrent Transmission. IEEE Internet of Things Journal, 2021, 8, 1519-1532.	5.5	2
8	PRComm. , 2021, , .		2
9	WiFi-Sleep: Sleep Stage Monitoring Using Commodity Wi-Fi Devices. IEEE Internet of Things Journal, 2021, 8, 13900-13913.	5.5	43
10	LiteNap: Downclocking LoRa Reception. IEEE/ACM Transactions on Networking, 2021, 29, 2632-2645.	2.6	8
11	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
12	Connected Target Ïµ-probability Coverage in WSNs With Directional Probabilistic Sensors. IEEE Systems Journal, 2020, 14, 3399-3409.	2.9	6
13	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
14	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
15	SateLoc: A Virtual Fingerprinting Approach to Outdoor LoRa Localization using Satellite Images. , 2020, , .		18
16	FTrack: Parallel Decoding for LoRa Transmissions. IEEE/ACM Transactions on Networking, 2020, 28, 2573-2586.	2.6	52
17	LiteNap: Downclocking LoRa Reception. , 2020, , .		17
18	FingerDraw. , 2020, 4, 1-27.		59

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19	DeepKey. ACM Transactions on Intelligent Systems and Technology, 2020, 11, 1-24.	2.9	23
20	MDLdroidLite. , 2020, , .		7
21	SELoc: Collect Your Location Data Using Only a Barometer Sensor. IEEE Access, 2019, 7, 88705-88717.	2.6	6
22	FTrack. , 2019, , .		74
23	Rendezvous Cost-Aware Opportunistic Routing in Heterogeneous Duty-Cycled Wireless Sensor Networks. IEEE Access, 2019, 7, 121825-121840.	2.6	11
24	Approximate Optimal Deployment of Barrier Coverage on Heterogeneous Bistatic Radar Sensors. Sensors, 2019, 19, 2403.	2.1	3
25	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
26	Assessing User Mental Workload for Smartphone Applications With Built-In Sensors. IEEE Pervasive Computing, 2019, 18, 59-70.	1.1	5
27	Enabling Out-of-Band Coordination of Wi-Fi Communications on Smartphones. IEEE/ACM Transactions on Networking, 2019, 27, 518-531.	2.6	2
28	Minimum Cost Deployment of Bistatic Radar Sensor for Perimeter Barrier Coverage. Sensors, 2019, 19, 225.	2.1	7
29	AirContour. ACM Transactions on Sensor Networks, 2019, 15, 1-25.	2.3	23
30	Contactless Respiration Monitoring Using Ultrasound Signal With Off-the-Shelf Audio Devices. IEEE Internet of Things Journal, 2019, 6, 2959-2973.	5.5	52
31	Spatial Multiplexing for Non-Line-of-Sight Light-to-Camera Communications. IEEE Transactions on Mobile Computing, 2019, 18, 2660-2671.	3.9	22
32	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
33	Accurate Corruption Estimation in ZigBee under Cross-Technology Interference. IEEE Transactions on Mobile Computing, 2019, 18, 2243-2256.	3.9	12
34	SMinder: Detect a Left-behind Phone using Sensor-based Context Awareness. Mobile Networks and Applications, 2019, 24, 171-183.	2.2	5
35	Traveling Officer Problem: Managing Car Parking Violations Efficiently Using Sensor Data. IEEE Internet of Things Journal, 2018, 5, 802-810.	5.5	40
36	Automation of CT-based haemorrhagic stroke assessment for improved clinical outcomes: study protocol and design. BMJ Open, 2018, 8, e020260.	0.8	4

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37	C-FMCW Based Contactless Respiration Detection Using Acoustic Signal. , 2018, 1, 1-20.		105
38	Compressive Representation for Device-Free Activity Recognition with Passive RFID Signal Strength. IEEE Transactions on Mobile Computing, 2018, 17, 293-306.	3.9	75
39	An Adaptive Low-Power Listening Protocol for Wireless Sensor Networks in Noisy Environments. IEEE Systems Journal, 2018, 12, 2162-2173.	2.9	23
40	Making Sense of Doppler Effect for Multi-Modal Hand Motion Detection. IEEE Transactions on Mobile Computing, 2018, 17, 2087-2100.	3.9	6
41	FastDesk: A remote desktop virtualization system for multi-tenant. Future Generation Computer Systems, 2018, 81, 478-491.	4.9	7
42	BTrack: Using Barometer for Energy Efficient Location Tracking on Mountain Roads. IEEE Access, 2018, 6, 66998-67009.	2.6	9
43	Towards Repeatable Wireless Network Simulation Using Performance Aware Markov Model. , 2018, , .		1
44	Reliability of the <scp>MRI</scp>â€based Brain Atrophy and Lesion Index in the evaluation of wholeâ€brain structural health. Aging Medicine (Milton (N S W)), 2018, 1, 125-132.	0.9	6
45	GazeRevealer. , 2018, , .		4
46	FullBreathe. , 2018, 2, 1-19.		123
47	HiMeter: Telling You the Height Rather than the Altitude. Sensors, 2018, 18, 1712.	2.1	17
48	Converting Your Thoughts to Texts: Enabling Brain Typing via Deep Feature Learning of EEG Signals. , 2018, , .		53
49	Acupuncture therapy in treating migraine: results of a magnetic resonance spectroscopy imaging study. Journal of Pain Research, 2018, Volume 11, 889-900.	0.8	23
50	SpiderWalk. , 2018, 2, 1-30.		8
51	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
52	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
53	An Analytical Model for Coding-Based Reprogramming Protocols in Lossy Wireless Sensor Networks. IEEE Transactions on Computers, 2017, 66, 24-37.	2.4	10
54	ReLog: A systematic approach for supporting efficient reprogramming in wireless sensor networks. Journal of Parallel and Distributed Computing, 2017, 102, 132-148.	2.7	3

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55	A Mixed Transmission Strategy to Achieve Energy Balancing in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2017, 16, 2111-2122.	6.1	19
56	Exploring traffic congestion correlation from multiple data sources. Pervasive and Mobile Computing, 2017, 41, 470-483.	2.1	35
57	Towards Accurate Corruption Estimation in ZigBee Under Cross-Technology Interference. , 2017, , .		10
58	Accurate and Generic Sender Selection for Bulk Data Dissemination in Low-Power Wireless Networks. IEEE/ACM Transactions on Networking, 2017, 25, 948-959.	2.6	22
59	Embracing Corruption Burstiness: Fast Error Recovery for ZigBee under Wi-Fi Interference. IEEE Transactions on Mobile Computing, 2017, 16, 2518-2530.	3.9	32
60	Direction-Aware, Audio-Based Pedestrian Relative Positioning by Swing Induced Doppler Shift. , 2017, , .		0
61	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
62	Surviving screen-off battery through out-of-band Wi-Fi coordination. , 2017, , .		3
63	Towards energy-balanced data transmission for lifetime optimization in wireless sensor networks. , 2016, , .		4
64	AudioGest. , 2016, , .		98
65	Integrating Wi-Fi and magnetic field for fingerprinting based indoor positioning system. , 2016, , .		4
66	Learning from less for better. , 2016, , .		36
67	UHRF1 gene silencing inhibits cell proliferation and promotes cell apoptosis in human cervical squamous cell carcinoma CaSki cells. Journal of Ovarian Research, 2016, 9, 42.	1.3	27
68	L-MAC: A wake-up time self-learning MAC protocol for wireless sensor networks. Computer Networks, 2016, 105, 33-46.	3.2	36
69	HOI-Loc: Towards unobstructive human localization with probabilistic multi-sensor fusion. , 2016, , .		2
70	Human respiration detection with commodity wifi devices. , 2016, , .		316
71	Device-free indoor localization and tracking through Human-Object Interactions. , 2016, , .		20
72	Mining Traffic Congestion Correlation between Road Segments on GPS Trajectories. , 2016, , .		18

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73	Scalable floor localization using barometer on smartphone. Wireless Communications and Mobile Computing, 2016, 16, 2557-2571.	0.8	42
74	An Audio-based Hierarchical Smoking Behavior Detection System Based on A Smart Neckband Platform. , 2016, , .		2
75	CoCo+: Exploiting correlated core for energy efficient dissemination in wireless sensor networks. Ad Hoc Networks, 2016, 37, 404-417.	3.4	16
76	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
77	Who should I invite for my party?. , 2015, , .		29
78	Infrastructure-Free Floor Localization Through Crowdsourcing. Journal of Computer Science and Technology, 2015, 30, 1249-1273.	0.9	10
79	A Novel Metric for Opportunistic Routing in Heterogenous Duty-Cycled Wireless Sensor Networks. , 2015, , .		7
80	PrivacyPalisade: Evaluating app permissions and building privacy into smartphones. , 2015, , .		2
81	Freedom: Online Activity Recognition via Dictionary-Based Sparse Representation of RFID Sensing Data. , 2015, , .		12
82	Modeling link correlation in low-power wireless networks. , 2015, , .		17
83	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
84	Supporting Serendipitous Social Interaction Using Human Mobility Prediction. IEEE Transactions on Human-Machine Systems, 2015, 45, 811-818.	2.5	28
85	RF-Care: Device-Free Posture Recognition for Elderly People Using A Passive RFID Tag Array. , 2015, , .		30
86	TagFall: Towards Unobstructive Fine-Grained Fall Detection based on UHF Passive RFID Tags. , 2015, , .		23
87	Exploiting link correlation for core-based dissemination in wireless sensor networks. , 2014, , .		8
88	Complete Bipartite Anonymity for Location Privacy. Journal of Computer Science and Technology, 2014, 29, 1094-1110.	0.9	2
89	Special Issue on Body Area Networks. Mobile Networks and Applications, 2014, 19, 683-683.	2.2	0
90	B-Loc: Scalable Floor Localization Using Barometer on Smartphone. , 2014, , .		24

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91	Crowdsourced smartphone sensing for localization in metro trains. , 2014, , .		3
92	F-Loc: Floor localization via crowdsourcing. , 2014, , .		16
93	MaLoc. , 2014, , .		84
94	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
95	Editorial for MobiQuitous 2011 Special Issue. Mobile Networks and Applications, 2013, 18, 293-294.	2.2	0
96	JointCache: Collaborative path confusion through lightweight P2P communication. , 2013, , .		2
97	Complete Bipartite Anonymity: Confusing Anonymous Mobility Traces for Location Privacy. , 2012, , .		4
98	Audio-on-demand over wireless sensor networks. , 2012, , .		1
99	Energy balanced data collection in Wireless Sensor Networks. , 2012, , .		6
100	Minimizing inter-server communications by exploiting self-similarity in online social networks. , 2012, , .		5
101	FTrack: Infrastructure-free floor localization via mobile phone sensing. , 2012, , .		27
102	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
103	A hierarchical approach to real-time activity recognition in body sensor networks. Pervasive and Mobile Computing, 2012, 8, 115-130.	2.1	96
104	Recognizing Multiuser Activities Using Wireless Body Sensor Networks. IEEE Transactions on Mobile Computing, 2011, 10, 1618-1631.	3.9	30
105	Multi-User Activity Recognition in a Smart Home. Atlantis Ambient and Pervasive Intelligence, 2011, , 59-81.	0.2	6
106	A Pattern Mining Approach to Sensor-Based Human Activity Recognition. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 1359-1372.	4.0	115
107	Recognizing multi-user activities using wearable sensors in a smart home. Pervasive and Mobile Computing, 2011, 7, 287-298.	2.1	135
108	Season: Shelving interference and joint identification in large-scale RFID systems. , 2011, , .		89

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109	Supporting pervasive computing applications with active context fusion and semantic context delivery. Pervasive and Mobile Computing, 2010, 6, 21-42.	2.1	41
110	Object relevance weight pattern mining for activity recognition and segmentation. Pervasive and Mobile Computing, 2010, 6, 43-57.	2.1	95
111	An unsupervised approach to activity recognition and segmentation based on object-use fingerprints. Data and Knowledge Engineering, 2010, 69, 533-544.	2.1	96
112	Real-Time Activity Recognition in Wireless Body Sensor Networks: From Simple Gestures to Complex Activities. , 2010, , .		29
113	Materials for an Updatable Holographic 3D Display. Journal of Display Technology, 2010, 6, 510-516.	1.3	18
114	An Ontology-Based P2P Network for Semantic Search. International Journal of Grid and High Performance Computing, 2009, 1, 26-39.	0.7	1
115	Mining Emerging Patterns for recognizing activities of multiple users in pervasive computing. , 2009, , .		30
116	Context-aware middleware for pervasive elderly homecare. IEEE Journal on Selected Areas in Communications, 2009, 27, 510-524.	9.7	74
117	epSICAR: An Emerging Patterns based approach to sequential, interleaved and Concurrent Activity Recognition. , 2009, , .		73
118	Sensor-Based Human Activity Recognition in a Multi-user Scenario. Lecture Notes in Computer Science, 2009, , 78-87.	1.0	51
119	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
120	Secure RFID Identification and Authentication with Triggered Hash Chain Variants. , 2008, , .		12
121	An Updatable Holographic Display for 3D Visualization. Journal of Display Technology, 2008, 4, 424-430.	1.3	45
122	Peer-to-Peer Context Reasoning in Pervasive Computing Environments. , 2008, , .		13
123	Metabolite concentration ratios in thalami of patients with migraine and trigeminal neuralgia measured with1H-MRS. Neurological Research, 2008, 30, 229-233.	0.6	37
124	Gateways of physical spaces in context-aware computing. , 2008, , .		1
125	Schema matching for context-aware computing. , 2008, , .		16
126	Data Management for Context-Aware Computing. , 2008, , .		5

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127	Application Based Distance Measurement for Context Retrieval in Ubiquitous Computing. , 2007, , .		2
128	A two-tier semantic overlay network for P2P search. , 2007, , .		1
129	Information retrieval in schema-based P2P systems using one-dimensional semantic space. Computer Networks, 2007, 51, 4543-4560.	3.2	15
130	Signal transduction mediated by endostatin directly modulates cellular function of lung cancer cellsinÂvitro. Cancer Science, 2007, 98, 830-837.	1.7	13
131	A Semantic P2P Framework for Building Context-Aware Applications in Multiple Smart Spaces. , 2007, , 553-564.		2
132	Managing Quality of Context in Pervasive Computing. Proceedings International Conference on Quality Software, 2006, , .	0.0	70
133	Ontology Modeling of a Dynamic Protocol Stack. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	3
134	A serviceâ€oriented middleware for building contextâ€aware services. Journal of Network and Computer Applications, 2005, 28, 1-18.	5.8	729
135	Towards a flexible service discovery. Journal of Network and Computer Applications, 2005, 28, 233-248.	5.8	15
136	Toward an OSGi-Based Infrastructure for Context-Aware Applications. IEEE Pervasive Computing, 2004, 3, 66-74.	1.1	240
137	A middleware for building context-aware mobile services. , 0, , .		112
138	Ontology based context modeling and reasoning using OWL. , 0, , .		352
139	An Ontology-Based P2P Network for Semantic Search. , 0, , 299-312.		0