Wen Hu

List of Publications by Year
in descending order

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154 papers	5,551 citations	201674 27 h-index	155660 55 g-index
161 all docs	161 docs citations	161 times ranked	5053 citing authors

#	Article	IF	Citations
1	Recognizing Hand Gestures Using Solar Cells. IEEE Transactions on Mobile Computing, 2023, 22, 4223-4235.	5.8	2
2	Simultaneous Energy Harvesting and Gait Recognition Using Piezoelectric Energy Harvester. IEEE Transactions on Mobile Computing, 2022, 21, 2198-2209.	5.8	12
3	A differential privacy-based classification system for edge computing in IoT. Computer Communications, 2022, 182, 117-128.	5.1	9
4	SafeGait. , 2022, 6, 1-27.		1
5	Towards a Compressive-Sensing-Based Lightweight Encryption Scheme for the Internet of Things. IEEE Transactions on Mobile Computing, 2021, 20, 3049-3065.	5.8	9
6	Deep Learning for Radio-Based Human Sensing: Recent Advances and Future Directions. IEEE Communications Surveys and Tutorials, 2021, 23, 995-1019.	39.4	38
7	Gate-ID: WiFi-Based Human Identification Irrespective of Walking Directions in Smart Home. IEEE Internet of Things Journal, 2021, 8, 7610-7624.	8.7	28
8	A Novel Model-Based Security Scheme for LoRa Key Generation. , 2021, , .		10
9	SwingNet. , 2021, 5, 1-21.		2
10	Seirios. , 2021, , .		20
11	EnTrans: Leveraging Kinetic Energy Harvesting Signal for Transportation Mode Detection. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2816-2827.	8.0	20
12	A Low Latency On-Body Typing System through Single Vibration Sensor. IEEE Transactions on Mobile Computing, 2020, 19, 2520-2532.	5.8	12
13	Measurement, Characterization, and Modeling of LoRa Technology in Multifloor Buildings. IEEE Internet of Things Journal, 2020, 7, 298-310.	8.7	73
14	Sensing, Computing, and Communications for Energy Harvesting IoTs: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 1222-1250.	39.4	184
15	PGFit: Static permission analysis of health and fitness apps in IoT programming frameworks. Journal of Network and Computer Applications, 2020, 152, 102509.	9.1	10
16	P4Mobi: A Probabilistic Privacy-Preserving Framework for Publishing Mobility Datasets. IEEE Transactions on Vehicular Technology, 2020, 69, 6987-6999.	6.3	3
17	Skin-MIMO: Vibration-based MIMO Communication over Human Skin. , 2020, , .		3
18	A Survey of COVID-19 Contact Tracing Apps. IEEE Access, 2020, 8, 134577-134601.	4.2	469

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19	E-Jacket: Posture Detection with Loose-Fitting Garment using a Novel Strain Sensor. , 2020, , .		11
20	NLC: Natural Light Communication using Switchable Glass. , 2020, , .		1
21	An Efficient Privacy-preserving IoT System for Face Recognition. , 2020, , .		5
22	Sequence Data Matching and Beyond: New Privacy-Preserving Primitives Based on Bloom Filters. IEEE Transactions on Information Forensics and Security, 2020, 15, 2973-2987.	6.9	19
23	Capacitor-based Activity Sensing for Kinetic-powered Wearable IoTs. ACM Transactions on Internet of Things, 2020, 1, 1-26.	4.6	14
24	Auto-Key. , 2020, 4, 1-23.		18
25	KEHKey. , 2020, 4, 1-26.		13
26	Nephalai. , 2020, , .		13
27	EMIoT. , 2020, , .		1
28	Efficient Indoor Positioning with Visual Experiences via Lifelong Learning. IEEE Transactions on Mobile Computing, 2019, 18, 814-829.	5.8	6
29	IoT-NetSec: Policy-Based IoT Network Security Using OpenFlow. , 2019, , .		4
30	The Design, Implementation, and Deployment of a Smart Lighting System for Smart Buildings. IEEE Internet of Things Journal, 2019, 6, 7266-7281.	8.7	53
31	SolarGest. , 2019, , .		45
32	From Real to Complex. ACM Transactions on Sensor Networks, 2019, 15, 1-32.	3.6	23
33	Predictable Privacy-Preserving Mobile Crowd Sensing: A Tale of Two Roles. IEEE/ACM Transactions on Networking, 2019, 27, 361-374.	3.8	20
34	H2B. , 2019, , .		42
35	Long-term secure management of large scale Internet of Things applications. Journal of Network and Computer Applications, 2019, 138, 15-26.	9.1	3
36	WiEnhance: Towards Data Augmentation in Human Activity Recognition Using WiFi Signal. , 2019, , .		7

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37	LoRa-Key: Secure Key Generation System for LoRa-Based Network. IEEE Internet of Things Journal, 2019, 6, 6404-6416.	8.7	69
38	GaitLock: Protect Virtual and Augmented Reality Headsets Using Gait. IEEE Transactions on Dependable and Secure Computing, 2019, 16, 484-497.	5.4	36
39	KEH-Gait: Using Kinetic Energy Harvesting for Gait-based User Authentication Systems. IEEE Transactions on Mobile Computing, 2019, 18, 139-152.	5.8	49
40	Mobile golf swing tracking using deep learning with data fusion. , 2019, , .		2
41	Privacy-preserving sparse representation classification in cloud-enabled mobile applications. Computer Networks, 2018, 133, 59-72.	5.1	14
42	Continuous Authentication Using Eye Movement Response of Implicit Visual Stimuli. , 2018, 1, 1-22.		43
43	SEDA: Secure Over-the-Air Code Dissemination Protocol for the Internet of Things. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 1041-1054.	5.4	14
44	Sensor-Assisted Multi-View Face Recognition System on Smart Glass. IEEE Transactions on Mobile Computing, 2018, 17, 197-210.	5.8	31
45	Learning for Device Pairing in Body Area Networks. , 2018, , .		4
46	HiddenCode: Hidden Acoustic Signal Capture with Vibration Energy Harvesting. , 2018, , .		6
47	Energy Efficient LPWAN Decoding via Joint Sparse Approximation. , 2018, , .		1
48	CardioFi. , 2018, , .		11
49	Gesture Recognition with Transparent Solar Cells. , 2018, , .		6
50	Kinetic-Powered Health Wearables: Challenges and Opportunities. Computer, 2018, 51, 64-74.	1.1	19
51	Permission Analysis of Health and Fitness Apps in IoT Programming Frameworks. , 2018, , .		4
52	Acies: A Privacy-Preserving System for Edge-Based Classification. , 2018, , .		6
53	Exploring the Feasibility of Physical Layer Key Generation for LoRaWAN. , 2018, , .		8
54	Demo Abstract: Simultaneous Energy Harvesting and Sensing Using Piezoelectric Energy Harvester. , 2018, , .		2

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55	ViType: A Cost Efficient On-Body Typing System through Vibration. , 2018, , .		24
56	SEHS: Simultaneous Energy Harvesting and Sensing Using Piezoelectric Energy Harvester. , 2018, , .		23
57	Human Context Detection From Kinetic Energy Harvesting Wearables. Advances in Wireless Technologies and Telecommunication Book Series, 2018, , 107-133.	0.4	1
58	Gait-Key. ACM Transactions on Sensor Networks, 2017, 13, 1-27.	3.6	45
59	VEH-COM: Demodulating vibration energy harvesting for short range communication. , 2017, , .		13
60	Gait-Watch. , 2017, , .		41
61	Accelerometer and Fuzzy Vault-Based Secure Group Key Generation and Sharing Protocol for Smart Wearables. IEEE Transactions on Information Forensics and Security, 2017, 12, 2467-2482.	6.9	37
62	ESIoT. , 2017, , .		14
63	Kryptein. , 2017, , .		23
64	Sparsity Based Efficient Cross-Correlation Techniques in Sensor Networks. IEEE Transactions on Mobile Computing, 2017, 16, 2037-2050.	5.8	6
65	Learn to Recognise: Exploring Priors of Sparse Face Recognition on Smartphones. IEEE Transactions on Mobile Computing, 2017, 16, 1705-1717.	5.8	16
66	Automated Analysis of Secure Internet of Things Protocols. , 2017, , .		18
67	Virtual Keyboard for Wearable Wristbands. , 2017, , .		9
68	WiCare. , 2017, , .		14
69	Unobtrusive User Verification using Piezoelectric Energy Harvesting. , 2017, , .		3
70	CapSense. , 2017, , .		20
71	KEH-Gait: Towards a Mobile Healthcare User Authentication System by Kinetic Energy Harvesting. , 2017, , .		33
72	I Am Alice, I Was in Wonderland: Secure Location Proof Generation and Verification Protocol. , 2016, , .		21

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73	Sensor-Assisted Face Recognition System on Smart Glass via Multi-View Sparse Representation Classification. , 2016, , .		10
74	Human identification using WiFi signal. , 2016, , .		11
75	Secure key generation and distribution protocol for wearable devices. , 2016, , .		13
76	Transportation mode detection using kinetic energy harvesting wearables. , 2016, , .		22
77	A Bayesian framework for energy-neutral activity monitoring with self-powered wearable sensors. , 2016, , .		5
78	Walkie-Talkie: Motion-Assisted Automatic Key Generation for Secure On-Body Device Communication. , 2016, , .		51
79	WiFi-ID: Human Identification Using WiFi Signal. , 2016, , .		160
80	Adaptive Sampling by Dictionary Learning for Hyperspectral Imaging. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4501-4509.	4.9	8
81	TinyIPFIX: An efficient application protocol for data exchange in cyber physical systems. Computer Communications, 2016, 74, 63-76.	5.1	17
82	Real-Time and Robust Compressive Background Subtraction for Embedded Camera Networks. IEEE Transactions on Mobile Computing, 2016, 15, 406-418.	5.8	34
83	CScrypt. , 2016, , .		2
84	DLINK: Dual link based radio frequency fingerprinting for wearable devices. , 2015, , .		37
85	Talos. , 2015, , .		61
86	Sparse representation based acoustic rangefinders: from sensor platforms to mobile devices. , 2015, 53, 249-257.		8
87	Autonomous surveillance for biosecurity. Trends in Biotechnology, 2015, 33, 201-207.	9.3	28
88	A remote attestation protocol with Trusted Platform Modules (TPMs) in wireless sensor networks.. Security and Communication Networks, 2015, 8, 2171-2188.	1.5	22
89	dRTI. , 2015, , .		45
90	Radio-based device-free activity recognition with radio frequency interference. , 2015, , .		56

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91	Novel activity classification and occupancy estimation methods for intelligent HVAC (heating,) Tj ETQq1 1 0.784314 rgBT /Overlock 1	8.8	48
92	SimpleTrack: Adaptive Trajectory Compression With Deterministic Projection Matrix for Mobile Sensor Networks. IEEE Sensors Journal, 2015, 15, 365-373.	4.7	29
93	Ear-Phone: A context-aware noise mapping using smart phones. Pervasive and Mobile Computing, 2015, 17, 1-22.	3.3	80
94	Optimal Sampling Strategy Enabling Energy-Neutral Operations at Rechargeable Wireless Sensor Networks. IEEE Sensors Journal, 2015, 15, 201-208.	4.7	3
95	RFT. , 2015, , .		7
96	Estimating Calorie Expenditure from Output Voltage of Piezoelectric Energy Harvester - an Experimental Feasibility Study. , 2015, , .		17
97	Radio diversity for reliable communication in sensor networks. ACM Transactions on Sensor Networks, 2014, 10, 1-29.	3.6	11
98	Combating Software and Sybil Attacks to Data Integrity in Crowd-Sourced Embedded Systems. Transactions on Embedded Computing Systems, 2014, 13, 1-19.	2.9	7
99	On the need for a reputation system in mobile phone based sensing. Ad Hoc Networks, 2014, 12, 130-149.	5.5	63
100	Face recognition on smartphones via optimised Sparse Representation Classification. , 2014, , .		28
101	Energy efficient GPS acquisition with Sparse-GPS. , 2014, , .		21
102	A virtual sensor scheduling framework for heterogeneous wireless sensor networks. , 2013, , .		2
103	Nonuniform Compressive Sensing for Heterogeneous Wireless Sensor Networks. IEEE Sensors Journal, 2013, 13, 2120-2128.	4.7	43
104	Feasibility analysis of using humidex as an indoor thermal comfort predictor. Energy and Buildings, 2013, 64, 17-25.	6.7	85
105	DTLS based security and two-way authentication for the Internet of Things. Ad Hoc Networks, 2013, 11, 2710-2723.	5.5	372
106	Efficient Computation of Robust Average of Compressive Sensing Data in Wireless Sensor Networks in the Presence of Sensor Faults. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1525-1534.	5.6	26
107	Real-time classification via sparse representation in acoustic sensor networks. , 2013, , .		24
108	Projection matrix optimisation for compressive sensing based applications in embedded systems. , 2013, , .		1

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109	SparseGPS. , 2013, , .		2
110	Distributed sparse approximation for frog sound classification. , 2012, , .		5
111	Efficient background subtraction for real-time tracking in embedded camera networks. , 2012, , .		43
112	Efficient background subtraction for tracking in embedded camera networks. , 2012, , .		2
113	Efficient cross-correlation via sparse representation in sensor networks. , 2012, , .		15
114	A fast gradient projection algorithm for efficient cross-correlation via sparse representation in sensor networks. , 2012, , .		0
115	A privacy-preserving reputation system for participatory sensing. , 2012, , .		47
116	A key distribution protocol for Wireless Sensor Networks. , 2012, , .		7
117	Outdoor Sensornet Design and Deployment: Experiences from a Sugar Farm. IEEE Pervasive Computing, 2012, 11, 82-91.	1.3	14
118	A DTLS based end-to-end security architecture for the Internet of Things with two-way authentication. , 2012, , .		107
119	An RPC-Based Service Framework for Robot and Sensor Network Integration. , 2011, , .		3
120	Non-uniform compressive sensing in wireless sensor networks: Feasibility and application. , 2011, , .		10
121	A TPM-enabled remote attestation protocol (TRAP) in wireless sensor networks. , 2011, , .		31
122	Securing the internet of things with DTLS. , 2011, , .		10
123	An Adaptive Algorithm for Compressive Approximation of Trajectory (AACAT) for Delay Tolerant Networks. Lecture Notes in Computer Science, 2011, , 33-48.	1.3	14
124	Environmental Wireless Sensor Networks. Proceedings of the IEEE, 2010, 98, 1903-1917.	21.3	354
125	Preserving privacy in participatory sensing systems. Computer Communications, 2010, 33, 1266-1280.	5.1	103
126	Toward trusted wireless sensor networks. ACM Transactions on Sensor Networks, 2010, 7, 1-25.	3.6	45

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127	Ear-phone. , 2010, , .		531
128	RHA: A robust hybrid architecture for information processing in wireless sensor networks. , 2010, , .		3
129	An Energy-efficient Rate Adaptive Media Access Protocol (RA-MAC) for Long-lived Sensor Networks. Sensors, 2010, 10, 5548-5568.	3.8	6
130	A hardware-based remote attestation protocol in wireless sensor networks. , 2010, , .		1
131	Energy-Aware Sparse Approximation Technique (EAST) for Rechargeable Wireless Sensor Networks. Lecture Notes in Computer Science, 2010, , 306-321.	1.3	15
132	Towards a framework for a versatile wireless multimedia sensor network platform. , 2010, , .		0
133	Heterogeneous traffic performance comparison for 6LoWPAN enabled low-power transceivers. , 2010, , .		10
134	Are you contributing trustworthy data?. , 2010, , .		117
135	ERTP: Energy-efficient and Reliable Transport Protocol for data streaming in Wireless Sensor Networks. Computer Communications, 2009, 32, 1154-1171.	5.1	73
136	Energy efficient information collection in wireless sensor networks using adaptive compressive sensing. , 2009, , .		76
137	Design and evaluation of a hybrid sensor network for cane toad monitoring. ACM Transactions on Sensor Networks, 2009, 5, 1-28.	3.6	103
138	secFleck: A Public Key Technology Platform for Wireless Sensor Networks. Lecture Notes in Computer Science, 2009, , 296-311.	1.3	65
139	Towards privacy-sensitive participatory sensing. , 2009, , .		30
140	Ear-Phone assessment of noise pollution with mobile phones. , 2009, , .		6
141	Springbrook: Challenges in developing a long-term, rainforest wireless sensor network. , 2008, , .		33
142	Design and implementation of a policy-based management system for data reliability in Wireless Sensor Networks. , 2008, , .		3
143	A public key technology platform for wireless sensor networks. , 2008, , .		4
144	An empirical study of data collection protocols for wireless sensor networks. , 2008, , .		11

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145	Lightweight acoustic classification for cane-toad monitoring. , 2008, , .		7
146	A model-based routing protocol for a mobile, delay tolerant network. , 2007, , .		5
147	The design and evaluation of a mobile sensor/actuator network for autonomous animal control. , 2007, , .		62
148	Design and Deployment of a Remote Robust Sensor Network: Experiences from an Outdoor Water Quality Monitoring Network. , 2007, , .		56
149	A Congestion-aware Medium Access Control Protocol for Multi-rate Ad-hoc Networks. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	4
150	Deploying long-lived and cost-effective hybrid sensor networks. Ad Hoc Networks, 2006, 4, 749-767.	5.5	51
151	A Communication Paradigm for Hybrid Sensor/Actuator Networks*. International Journal of Wireless Information Networks, 2005, 12, 47-59.	2.7	43
152	A hybrid sensor network for cane-toad monitoring. , 2005, , .		16
153	The design and evaluation of a hybrid sensor network for cane-toad monitoring. , 0, , .		5
154	CAPS: Energy-Efficient Processing of Continuous Aggregate Queries in Sensor Networks. , 0, , .		14