Yingying Chen

List of Publications by Year
in descending order

189 papers	7,476 citations	159358 30 h-index	174990 52 g-index
194 all docs	194 docs citations	194 times ranked	4917 citing authors

#	Article	IF	Citations
1	Leveraging Acoustic Signals for Fine-Grained Breathing Monitoring in Driving Environments. IEEE Transactions on Mobile Computing, 2022, 21, 1018-1033.	3.9	4
2	Enabling Fine-Grained Finger Gesture Recognition on Commodity WiFi Devices. IEEE Transactions on Mobile Computing, 2022, 21, 2789-2802.	3.9	20
3	mPose: Environment- and subject-agnostic 3D skeleton posture reconstruction leveraging a single mmWave device. Smart Health, 2022, 23, 100228.	2.0	15
4	Robust Continuous Authentication Using Cardiac Biometrics From Wrist-Worn Wearables. IEEE Internet of Things Journal, 2022, 9, 9542-9556.	5.5	9
5	A Review of IoT-Enabled Mobile Healthcare: Technologies, Challenges, and Future Trends. IEEE Internet of Things Journal, 2022, 9, 9478-9502.	5.5	38
6	Misleading political advertising fuels incivility online: A social network analysis of 2020 U.S. presidential election campaign video comments on YouTube. Computers in Human Behavior, 2022, 131, 107202.	5.1	12
7	Commodity WiFi Sensing in Ten Years: Status, Challenges, and Opportunities. IEEE Internet of Things Journal, 2022, 9, 17832-17843.	5.5	19
8	Simultaneous Monitoring of Multiple People's Vital Sign Leveraging a Single Phased-MIMO Radar. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2022, 6, 311-320.	2.3	20
9	A Survey of Deep Learning on Mobile Devices: Applications, Optimizations, Challenges, and Research Opportunities. Proceedings of the IEEE, 2022, 110, 334-354.	16.4	19
10	Acoustic-Sensing-Based Location Semantics Identification Using Smartphones. IEEE Internet of Things Journal, 2022, 9, 20640-20650.	5.5	2
11	A Phoneme Localization Based Liveness Detection for Text-independent Speaker Verification. IEEE Transactions on Mobile Computing, 2022, , 1-14.	3.9	1
12	ToothSonic. , 2022, 6, 1-24.		9
13	GoPose. , 2022, 6, 1-25.		17
14	Continuous Authentication Through Finger Gesture Interaction for Smart Homes Using WiFi. IEEE Transactions on Mobile Computing, 2021, 20, 3148-3162.	3.9	95
15	Enable Traditional Laptops with Virtual Writing Capability Leveraging Acoustic Signals. Computer Journal, 2021, 64, 1814-1831.	1.5	3
16	Towards Low-Cost Sign Language Gesture Recognition Leveraging Wearables. IEEE Transactions on Mobile Computing, 2021, 20, 1685-1701.	3.9	33
17	An Indirect Eavesdropping Attack of Keystrokes on Touch Screen through Acoustic Sensing. IEEE Transactions on Mobile Computing, 2021, 20, 337-351.	3.9	83
18	Localizing Acoustic Objects on a Single Phone. IEEE/ACM Transactions on Networking, 2021, 29, 2170-2183.	2.6	6

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19	Bipartite Graph Matching Based Secret Key Generation. , 2021, , .		6
20	WiFi-Enabled User Authentication through Deep Learning in Daily Activities. ACM Transactions on Internet of Things, 2021, 2, 1-25.	3.4	12
21	Proximity-Echo: Secure Two Factor Authentication Using Active Sound Sensing. , 2021, , .		6
22	MIXP: Efficient Deep Neural Networks Pruning for Further FLOPs Compression via Neuron Bond. , 2021, , .		1
23	Authentication of Voice Commands by Leveraging Vibrations in Wearables. IEEE Security and Privacy, 2021, , 2-11.	1.5	1
24	Winect. , 2021, 5, 1-29.		16
25	Thru-the-wall Eavesdropping on Loudspeakers via RFID by Capturing Sub-mm Level Vibration. , 2021, 5, 1-25.		11
26	Signature Verification Using Critical Segments for Securing Mobile Transactions. IEEE Transactions on Mobile Computing, 2020, 19, 724-739.	3.9	18
27	Leveraging Acoustic Signals for Vehicle Steering Tracking with Smartphones. IEEE Transactions on Mobile Computing, 2020, 19, 865-879.	3.9	10
28	Probing into the Physical Layer: Moving Tag Detection for Large-Scale RFID Systems. IEEE Transactions on Mobile Computing, 2020, 19, 1200-1215.	3.9	12
29	Wireless Sensing for Human Activity: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 1629-1645.	24.8	166
30	Acoustic-based sensing and applications: A survey. Computer Networks, 2020, 181, 107447.	3.2	31
31	MU-ID: Multi-user Identification Through Gaits Using Millimeter Wave Radios. , 2020, , .		47
32	Platform Civics: Facebook in the Local Information Infrastructure. Digital Journalism, 2020, 8, 1231-1257.	2.5	23
33	Reference Waveforms Forward Concurrent Transmissions in ZigBee Communications. IEEE/ACM Transactions on Networking, 2020, 28, 1629-1642.	2.6	4
34	User authentication on mobile devices: Approaches, threats and trends. Computer Networks, 2020, 170, 107118.	3.2	59
35	TouchPass. , 2020, , .		46
36	VocalLock. , 2020, 4, 1-24.		19

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37	EchoLock: Towards Low-effort Mobile User Identification Leveraging Structure-borne Echos. , 2020, , .		7
38	Noninvasive Fine-Grained Sleep Monitoring Leveraging Smartphones. IEEE Internet of Things Journal, 2019, 6, 8248-8261.	5.5	23
39	BreathListener. , 2019, , .		74
40	A Smartphone-Only Pulse Transit Time Monitor Based on Cardio-Mechanical and Photoplethysmography Modalities. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1462-1470.	2.7	4
41	I3. , 2019, 3, 1-22.		4
42	Implications of smartphone user privacy leakage from the advertiser's perspective. Pervasive and Mobile Computing, 2019, 53, 13-32.	2.1	7
43	Lip Reading-Based User Authentication Through Acoustic Sensing on Smartphones. IEEE/ACM Transactions on Networking, 2019, 27, 447-460.	2.6	66
44	Proactive User Authentication Using WiFi Signals in Dynamic Networks. Advances in Information Security, 2019, , 223-248.	0.9	1
45	State-of-Art Researches. Springer Briefs in Electrical and Computer Engineering, 2018, , 65-68.	0.3	0
46	Sensing Vehicle Dynamics for Abnormal Driving Detection. Springer Briefs in Electrical and Computer Engineering, 2018, , 25-43.	0.3	0
47	Sensing Driver Behaviors for Early Recognition of Inattentive Driving. Springer Briefs in Electrical and Computer Engineering, 2018, , 45-64.	0.3	0
48	Monitoring Vital Signs and Postures During Sleep Using WiFi Signals. IEEE Internet of Things Journal, 2018, 5, 2071-2084.	5.5	133
49	Leveraging Audio Signals for Early Recognition of Inattentive Driving with Smartphones. IEEE Transactions on Mobile Computing, 2018, 17, 1553-1567.	3.9	29
50	RF-Kinect. , 2018, 2, 1-28.		45
51	Authenticating Users Through Fine-Grained Channel Information. IEEE Transactions on Mobile Computing, 2018, 17, 251-264.	3.9	56
52	Personal PIN Leakage from Wearable Devices. IEEE Transactions on Mobile Computing, 2018, 17, 646-660.	3.9	20
53	VPad: Virtual Writing Tablet for Laptops Leveraging Acoustic Signals. , 2018, , .		7
54	PPG-based Finger-level Gesture Recognition Leveraging Wearables. , 2018, , .		36

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55	A Low-cost, Smartphone-only Pulse Transit Time Measurement System Using Cardio-mechanical Signals and Optical Sensors*. , 2018, 2018, 1-4.		6
56	Device-free Personalized Fitness Assistant Using WiFi. , 2018, 2, 1-23.		41
57	Extinguishing Lady Liberty's Torch? Online Public Responses to the U.S. Executive Order to Ban Immigrants from 7 Countries. Journal of Intercultural Communication Research, 2018, 47, 564-580.	0.3	3
58	LipPass: Lip Reading-based User Authentication on Smartphones Leveraging Acoustic Signals. , 2018, , .		61
59	Multi - Touch in the Air: Device-Free Finger Tracking and Gesture Recognition via COTS RFID. , 2018, , .		100
60	SteerTrack: Acoustic-Based Device-Free Steering Tracking Leveraging Smartphones. , 2018, , .		14
61	RF-ECG. , 2018, 2, 1-26.		64
62	Good vibrations: accessing 'smart' systems by touching any solid surface. Biometric Technology Today, 2018, 2018, 7-10.	0.7	1
63	Robot-assisted smartphone localization for human indoor tracking. Robotics and Autonomous Systems, 2018, 106, 82-94.	3.0	12
64	Towards In-baggage Suspicious Object Detection Using Commodity WiFi. , 2018, , .		42
65	How Synergy Effects of Paid and Digital Owned Media Influence Brand Sales. Journal of Advertising Research, 2018, 58, 77-89.	1.0	12
66	Sensing Vehicle Dynamics with Smartphones. Springer Briefs in Electrical and Computer Engineering, 2018, , 7-23.	0.3	0
67	Enabling Self-Healing Smart Grid Through Jamming Resilient Local Controller Switching. IEEE Transactions on Dependable and Secure Computing, 2017, 14, 377-391.	3.7	12
68	Color Scheme Adaptation to Enhance User Experience on Smartphone Displays Leveraging Ambient Light. IEEE Transactions on Mobile Computing, 2017, 16, 688-701.	3.9	5
69	VibWrite. , 2017, , .		58
70	Smart User Authentication through Actuation of Daily Activities Leveraging WiFi-enabled IoT. , 2017, , .		170
71	Smartphone Privacy Leakage of Social Relationships and Demographics from Surrounding Access Points. , 2017, , .		4
72	FitCoach: Virtual fitness coach empowered by wearable mobile devices. , 2017, , .		69

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73	VibSense: Sensing Touches on Ubiquitous Surfaces through Vibration. , 2017, , .		32
74	Locating Rogue Access Point Using Fine-Grained Channel Information. IEEE Transactions on Mobile Computing, 2017, 16, 2560-2573.	3.9	30
75	Fine-Grained Abnormal Driving Behaviors Detection and Identification with Smartphones. IEEE Transactions on Mobile Computing, 2017, 16, 2198-2212.	3.9	106
76	SubTrack: Enabling Real-Time Tracking of Subway Riding on Mobile Devices. , 2017, , .		1
77	SalsaAsst: Beat Counting System Empowered by Mobile Devices to Assist Salsa Dancers. , 2017, , .		3
78	Secret key distribution leveraging color shift over visible light channel. , 2017, , .		5
79	ER: Early recognition of inattentive driving leveraging audio devices on smartphones. , 2017, , .		24
80	BigRoad. , 2017, , .		26
81	VoiceLive. , 2016, , .		114
82	Motion Scale: A Body Motion Monitoring System Using Bed-Mounted Wireless Load Cells. , 2016, , .		27
83	Uber-in-light: Unobtrusive visible light communication leveraging complementary color channel. , 2016, , .		19
84	Leveraging wearables for steering and driver tracking. , 2016, , .		38
85	Friend or Foe?. , 2016, , .		79
86	Profit Maximization through Online Advertising Scheduling for a Wireless Video Broadcast Network. IEEE Transactions on Mobile Computing, 2016, 15, 2064-2079.	3.9	20
87	An Adaptive Framework Coping with Dynamic Target Speed for Device-Free Passive Localization. IEEE Transactions on Mobile Computing, 2015, 14, 1138-1150.	3.9	15
88	D<sup>3</sup>: Abnormal driving behaviors detection and identification using smartphone sensors. , 2015, , .		68
89	Critical segment based real-time E-signature for securing mobile transactions. , 2015, , .		9
90	Distributed Consensus-Based Weight Design for Cooperative Spectrum Sensing. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 54-64.	4.0	49

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91	SECO: Secure and scalable data collaboration services in cloud computing. Computers and Security, 2015, 50, 91-105.	4.0	16
92	Sensing Human-Screen Interaction for Energy-Efficient Frame Rate Adaptation on Smartphones. IEEE Transactions on Mobile Computing, 2015, 14, 1698-1711.	3.9	31
93	Towards Understanding the Advertiser's Perspective of Smartphone User Privacy. , 2015, , .		6
94	User Verification Leveraging Gait Recognition for Smartphone Enabled Mobile Healthcare Systems. IEEE Transactions on Mobile Computing, 2015, 14, 1961-1974.	3.9	88
95	Protecting Multi-Lateral Localization Privacy in Pervasive Environments. IEEE/ACM Transactions on Networking, 2015, 23, 1688-1701.	2.6	31
96	Tracking Vital Signs During Sleep Leveraging Off-the-shelf WiFi. , 2015, , .		318
97	Fine-grained sleep monitoring: Hearing your breathing with smartphones. , 2015, , .		70
98	Snooping Keystrokes with mm-level Audio Ranging on a Single Phone. , 2015, , .		110
99	Robot-assisted human indoor localization using the Kinect sensor and smartphones. , 2014, , .		9
100	Multi-lateral privacy-preserving localization in pervasive environments. , 2014, , .		36
101	Attack Detection Model. SpringerBriefs in Computer Science, 2014, , 7-22.	0.2	0
102	Defending against Frequency-Based Attacks on Distributed Data Storage in Wireless Networks. ACM Transactions on Sensor Networks, 2014, 10, 1-37.	2.3	1
103	Accurate rogue access point localization leveraging fine-grained channel information. , 2014, , .		15
104	Practical user authentication leveraging channel state information (CSI). , 2014, , .		61
105	E-eyes. , 2014, , .		616
106	Achieving an effective, scalable and privacy-preserving data sharing service in cloud computing. Computers and Security, 2014, 42, 151-164.	4.0	82
107	Accelerating 5G QoE via public-private spectrum sharing. , 2014, 52, 77-85.		87
108	Leveraging Wi-Fi Signals to Monitor Human Queues. IEEE Pervasive Computing, 2014, 13, 14-17.	1.1	3

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109	An Error-Minimizing Framework for Localizing Jammers in Wireless Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 508-517.	4.0	28
110	Robust Spectrum Sensing With Crowd Sensors. IEEE Transactions on Communications, 2014, 62, 3129-3143.	4.9	117
111	A Study of Localization Accuracy Using Multiple Frequencies and Powers. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1955-1965.	4.0	34
112	Group Secret Key Generation via Received Signal Strength: Protocols, Achievable Rates, and Implementation. IEEE Transactions on Mobile Computing, 2014, 13, 2820-2835.	3.9	104
113	Incentive Based Data Sharing in Delay Tolerant Mobile Networks. IEEE Transactions on Wireless Communications, 2014, 13, 370-381.	6.1	39
114	SenSpeed: Sensing driving conditions to estimate vehicle speed in urban environments. , 2014, , .		60
115	Accurate WiFi Based Localization for Smartphones Using Peer Assistance. IEEE Transactions on Mobile Computing, 2014, 13, 2199-2214.	3.9	124
116	Detecting Mobile Agents Using Identity Fraud. SpringerBriefs in Computer Science, 2014, , 43-66.	0.2	1
117	Detection and Localization of Multiple Spoofing Attackers in Wireless Networks. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 44-58.	4.0	142
118	Kernel-Based Learning for Statistical Signal Processing in Cognitive Radio Networks: Theoretical Foundations, Example Applications, and Future Directions. IEEE Signal Processing Magazine, 2013, 30, 126-136.	4.6	163
119	Neighborhood prediction based decentralized key management for mobile wireless networks. Wireless Networks, 2013, 19, 1387-1406.	2.0	4
120	Towards self-healing smart grid via intelligent local controller switching under jamming. , 2013, , .		1
121	Spectrum Sensing in Opportunity-Heterogeneous Cognitive Sensor Networks: How to Cooperate?. IEEE Sensors Journal, 2013, 13, 4247-4255.	2.4	64
122	Smartphone based user verification leveraging gait recognition for mobile healthcare systems. , 2013, , .		55
123	Achieving secure and efficient data collaboration in cloud computing. , 2013, , .		9
124	Proactive call drop avoidance in UMTS networks. , 2013, , .		7
125	Adaptive device-free passive localization coping with dynamic target speed. , 2013, , .		9
126	P2E: Privacy-preserving and effective cloud data sharing service. , 2013, , .		2

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127	E ³. , 2013, , .		31
128	Fast and practical secret key extraction by exploiting channel response. , 2013, , .		173
129	Social closeness based clone attack detection for mobile healthcare system. , 2012, , .		7
130	Error minimizing jammer localization through smart estimation of ambient noise. , 2012, , .		9
131	Collaborative secret key extraction leveraging Received Signal Strength in mobile wireless networks. , 2012, , .		29
132	Securing Mobile Location-based Services through position verification leveraging key distribution. , 2012, , .		3
133	Push the limit of WiFi based localization for smartphones. , 2012, , .		310
134	Exploiting Jamming-Caused Neighbor Changes for Jammer Localization. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 547-555.	4.0	49
135	Sensing Driver Phone Use with Acoustic Ranging through Car Speakers. IEEE Transactions on Mobile Computing, 2012, 11, 1426-1440.	3.9	33
136	Incentive driven information sharing in delay tolerant mobile networks. , 2012, , .		18
137	Defending Against Identity-Based Attacks in Wireless Networks. , 2012, , 191-222.		6
138	Toward attackâ€resistant localization under infrastructure attacks. Security and Communication Networks, 2012, 5, 384-403.	1.0	2
139	Detecting anomalous spectrum usage in dynamic spectrum access networks. Ad Hoc Networks, 2012, 10, 831-844.	3.4	24
140	Achieving robust wireless localization resilient to signal strength attacks. Wireless Networks, 2012, 18, 45-58.	2.0	8
141	Designing localization algorithms robust to signal strength attacks. , 2011, , .		13
142	Localizing Multiple Jamming Attackers in Wireless Networks. , 2011, , .		16
143	Distributed Spatio-Temporal Social Community Detection Leveraging Template Matching. , 2011, , .		0
144	Tracking vehicular speed variations by warping mobile phone signal strengths. , 2011, , .		54

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145	Distributed Cooperative Spectrum Sensing Based on Weighted Average Consensus. , 2011, , .		14
146	Determining the position of a jammer using a virtual-force iterative approach. Wireless Networks, 2011, 17, 531-547.	2.0	35
147	Metadata-guided evaluation of resource-constrained queries in content caching based wireless networks. Wireless Networks, 2011, 17, 1833-1850.	2.0	3
148	Detecting driver phone use leveraging car speakers. , 2011, , .		158
149	Mobile Phone Enabled Social Community Extraction for Controlling of Disease Propagation in Healthcare. , 2011, , .		11
150	Passive intrusion detection in wireless networks by exploiting clustering-based learning. , 2010, , .		1
151	A social community based approach for reducing the propagation of infectious diseases in healthcare. Mobile Computing and Communications Review, 2010, 14, 7-9.	1.7	7
152	Detecting and Localizing Identity-Based Attacks in Wireless and Sensor Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 2418-2434.	3.9	170
153	Vehicular speed estimation using received signal strength from mobile phones. , 2010, , .		33
154	Performing Joint Learning for Passive Intrusion Detection in Pervasive Wireless Environments. , 2010, , .		38
155	MUTON: Detecting Malicious Nodes in Disruption-Tolerant Networks. , 2010, , .		31
156	Wireless Jamming Localization by Exploiting Nodes' Hearing Ranges. Lecture Notes in Computer Science, 2010, , 348-361.	1.0	20
157	A Reinforcement Learning Based Framework for Prediction of Near Likely Nodes in Data-Centric Mobile Wireless Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	1.5	0
158	Detecting wormhole attacks in delay-tolerant networks [Security and Privacy in Emerging Wireless Networks. IEEE Wireless Communications, 2010, 17, 36-42.	6.6	38
159	A decentralized key management scheme via neighborhood prediction in mobile wireless networks. , 2010, , .		6
160	Empirical Evaluation of Wireless Localization when Using Multiple Antennas. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 1595-1610.	4.0	17
161	Characterizing the impact of multi-frequency and multi-power on localization accuracy. , 2010, , .		4
162	Detecting blackhole attacks in Disruption-Tolerant Networks through packet exchange recording. , 2010, , .		20

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163	Inverting Systems of Embedded Sensors for Position Verification in Location-Aware Applications. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 722-736.	4.0	2
164	Ensuring Data Storage Security against Frequency-Based Attacks in Wireless Networks. Lecture Notes in Computer Science, 2010, , 201-215.	1.0	19
165	Empirical Evaluation of the Limits on Localization Using Signal Strength. , 2009, , .		63
166	Detecting Spoofing Attacks in Mobile Wireless Environments. , 2009, , .		40
167	Localizing jammers in wireless networks. , 2009, , .		21
168	Securing Emerging Wireless Systems. , 2009, , .		13
169	A security and robustness performance analysis of localization algorithms to signal strength attacks. ACM Transactions on Sensor Networks, 2009, 5, 1-37.	2.3	24
170	Prediction of near likely nodes in data-centric mobile wireless networks. , 2009, , .		0
171	To Do or Not to Do: Metadata-Guided Query Evaluation in Content Caching Networks. , 2009, , .		2
172	Indoor Localization Using Improved RSS-Based Lateration Methods. , 2009, , .		134
173	Non-interactive localization of cognitive radios based on dynamic signal strength mapping. , 2009, , .		16
174	DECODE: Exploiting Shadow Fading to DEtect COMoving Wireless DEvices. IEEE Transactions on Mobile Computing, 2009, 8, 1663-1675.	3.9	12
175	Robust wireless localization to attacks on access points. , 2009, , .		23
176	Using a multiple analytical distribution filter for underwater localization. , 2009, , .		0
177	The concept of decentralized and secure electronic marketplace. Electronic Commerce Research, 2008, 8, 79-101.	3.0	26
178	Detecting sybil attacks inwireless and sensor networks using cluster analysis. , 2008, , .		14
179	A trusted infrastructure for facilitating access control of location information. , 2008, , .		1
180	Exploiting Environmental Properties for Wireless Localization and Location Aware Applications. , 2008, , .		12

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181	The Impact of Using Multiple Antennas on Wireless Localization. , 2008, , .		22
182	GRAIL: a general purpose localization system. Sensor Review, 2008, 28, 115-124.	1.0	9
183	DECODE : Detecting co-moving wireless devices. , 2008, , .		4
184	A theoretical analysis of wireless localization using RF-based fingerprint matching. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	10
185	ADLS: Attack Detection for Wireless Localization Using Least Squares. , 2007, , .		7
186	Detecting and Localizing Wireless Spoofing Attacks. , 2007, , .		151
187	A Practical Approach to Landmark Deployment for Indoor Localization. , 2006, , .		118
188	GRAIL. , 2006, , .		6
189	The Robustness of Localization Algorithms to Signal Strength Attacks: A Comparative Study. Lecture Notes in Computer Science, 2006, , 546-563.	1.0	37