

RSSI-Based Indoor Localization With the Internet of Things

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Citation Report

#	ARTICLE	IF	CITATIONS
1	3D Outdoor Positioning Based on RSSI. , 2018, , .		2
2	Energy Consumption and Proximity Accuracy of BLE Beacons for Internet of Things Applications. , 2018, , .		4
3	Enhanced Indoor Navigation System with Beacons and Kalman Filters. , 2018, , .		10
4	Comparison of RSSI-Based Indoor Localization for Smart Buildings with Internet of Things. , 2018, , .		10
5	Geometric Positioning Techniques Based on Tracking Algorithm for Indoor Dynamic Environments. , 2018, , .		2
6	Enhancing access to industrial iot measurements by means of location based services. IEEE Instrumentation and Measurement Magazine, 2018, 21, 15-21.	1.2	12
7	Three-Dimensional Localization Algorithm of WSN Nodes Based on RSSI-TOA and Single Mobile Anchor Node. Journal of Electrical and Computer Engineering, 2019, 2019, 1-8.	0.6	16
8	Joint Time-Frequency RSSI Features for Convolutional Neural Network-Based Indoor Fingerprinting Localization. IEEE Access, 2019, 7, 104892-104899.	2.6	24
9	Energy Efficient Bike-Share Tracking System with BLE Beacons and LoRa Technology. , 2019, , .		1
10	GROLO: Realistic Range-Based Localization for Mobile IoTs Through Global Rigidity. IEEE Internet of Things Journal, 2019, 6, 5048-5057.	5.5	8
11	Optimization of BLE Beacon Density for RSSI-Based Indoor Localization. , 2019, , .		22
12	Beacon-Related Param of Bluetooth Low Energy: Development of a Semi-Automatic System to Study Their Impact on Indoor Positioning Systems. Sensors, 2019, 19, 3087.	2.1	13
13	Evaluating the Implications of Varying Bluetooth Low Energy (BLE) Transmission Power Levels on Wireless Indoor Localization Accuracy and Precision. Sensors, 2019, 19, 3282.	2.1	28
14	Design and Experimental Validation of a LoRaWAN Fog Computing Based Architecture for IoT Enabled Smart Campus Applications. Sensors, 2019, 19, 3287.	2.1	51
15	Channel State Information from Pure Communication to Sense and Track Human Motion: A Survey. Sensors, 2019, 19, 3329.	2.1	41
16	A Meta-Review of Indoor Positioning Systems. Sensors, 2019, 19, 4507.	2.1	162
17	Experimental Evaluation of an RSSI-Based Localization Algorithm on IoT End-Devices. Sensors, 2019, 19, 3931.	2.1	9
18	LoRa-based Localization System for Emergency Services in GPS-less Environments. , 2019, , .		21

#	ARTICLE	IF	CITATIONS
19	STUPEFY: Set-Valued Box Particle Filtering for Bluetooth Low Energy-Based Indoor Localization. IEEE Signal Processing Letters, 2019, 26, 1773-1777.	2.1	32
20	VisioMap: Lightweight 3-D Scene Reconstruction Toward Natural Indoor Localization. IEEE Internet of Things Journal, 2019, 6, 8870-8882.	5.5	6
21	Virtual fingerprint and two-way ranging-based Bluetooth 3D indoor positioning with RSSI difference and distance ratio. Journal of Electromagnetic Waves and Applications, 2019, 33, 2155-2174.	1.0	6
22	Evaluating indoor and outdoor localization services for LoRaWAN in Smart City applications. , 2019, , .		10
23	Localization Approach Based on Ray-Tracing Simulations and Fingerprinting Techniques for Indoor-Outdoor Scenarios. Energies, 2019, 12, 2943.	1.6	13
24	Indoor Vehicles Geolocalization Using LoRaWAN. Future Internet, 2019, 11, 124.	2.4	22
25	Considerations about the Signal Level Measurement in Wireless Sensor Networks for Node Position Estimation. Sensors, 2019, 19, 4179.	2.1	9
26	Calibration of Wi-Fi-Based Indoor Tracking Systems for Android-Based Smartphones. Remote Sensing, 2019, 11, 1072.	1.8	11
27	A Survey of Indoor Localization Systems and Technologies. IEEE Communications Surveys and Tutorials, 2019, 21, 2568-2599.	24.8	1,335
28	Improved Visible Light-Based Indoor Positioning System Using Machine Learning Classification and Regression. Applied Sciences (Switzerland), 2019, 9, 1048.	1.3	36
29	Belief Condensation Filtering for RSSI-Based State Estimation in Indoor Localization. , 2019, , .		14
30	On the Performance of AoA-Based Localization in 5G Ultra-Dense Networks. IEEE Access, 2019, 7, 33870-33880.	2.6	44
31	Assistant Vehicle Localization Based on Three Collaborative Base Stations via SBL-Based Robust DOA Estimation. IEEE Internet of Things Journal, 2019, 6, 5766-5777.	5.5	158
32	BLE RSS Measurements Dataset for Research on Accurate Indoor Positioning. Data, 2019, 4, 12.	1.2	36
33	Internet of Things Infrastructure for Security and Safety in Public Places. Information (Switzerland), 2019, 10, 333.	1.7	7
34	Experimental Comparison of Energy Consumption and Proximity Accuracy of BLE Beacons. , 2019, , .		1
35	Design and Implementation of Real-Time Localization Algorithms Based on FPGA for Positioning and Tracking. , 2019, , .		1
36	Identifying and Tracking Individuals in a Smart Indoor Environment. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
37	Multi-Radio Perspectives for Massive MTC Localization: Energy Consumption and Utility. , 2019, , .		3
38	A Multistage RSSI-based Scheme for Node Compromise Detection in IoT Networks. , 2019, , .		3
39	Indoor Distance Estimation using LSTMs over WLAN Network. , 2019, , .		1
40	Event-Triggered Monitoring/Communication of Inertial Measurement Unit for IoT Applications. , 2019, , .		1
41	Gaussian Mixture-based Indoor Localization via Bluetooth Low Energy Sensors. , 2019, , .		3
42	A Wi-Fi-Based Wireless Indoor Position Sensing System with Multipath Interference Mitigation. Sensors, 2019, 19, 3983.	2.1	16
43	A Parametric TDoA Technique in the IoT Localization Context. , 2019, , .		6
44	Classroom Automation Using RSSI. , 2019, , .		3
45	Tag Localization with Asynchronous Inertial-Based Shifting and Trilateration. Sensors, 2019, 19, 5204.	2.1	1
46	Indoor Location Finding of the Transmitter Based on Bluetooth Received Signal Strength. , 2019, , .		5
47	Contextual Location in the Home Using Bluetooth Beacons. IEEE Systems Journal, 2019, 13, 2720-2723.	2.9	13
48	Novel Fast User-Placement Ushering Algorithms and Performance Analysis for LTE Femtocell Networks. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 381-393.	4.9	1
49	CapsLoc: A Robust Indoor Localization System with WiFi Fingerprinting Using Capsule Networks. , 2020, , .		10
50	Survey of Decentralized Solutions with Mobile Devices for User Location Tracking, Proximity Detection, and Contact Tracing in the COVID-19 Era. Data, 2020, 5, 87.	1.2	48
51	Method for Remote Determination of Object Coordinates in Space Based on Exact Analytical Solution of Hyperbolic Equations. Sensors, 2020, 20, 5472.	2.1	13
52	High Precision Weighted Optimum K-Nearest Neighbors Algorithm for Indoor Visible Light Positioning Applications. IEEE Access, 2020, 8, 114597-114607.	2.6	30
53	Reliable Identification Schemes for Asset and Production Tracking in Industry 4.0. Sensors, 2020, 20, 3709.	2.1	52
54	High precision hybrid RF and ultrasonic chirp-based ranging for low-power IoT nodes. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	1.5	9

#	ARTICLE	IF	CITATIONS
55	Novel ZigBee-Based Smart Anti-Theft System for Electric Bikes for Vietnam. , 2020, , .		3
56	Extending BLE Beacon Lifetime by a Novel Neural Network-driven Framework. , 2020, , .		2
57	Wi-Fi indoor positioning and navigation: a cloudlet-based cloud computing approach. Human-centric Computing and Information Sciences, 2020, 10, .	6.1	20
58	Lookup Service for Fog-based Indoor Localization Platforms using Chord Protocol. , 2020, , .		6
59	Multi-Slot BLE Raw Database for Accurate Positioning in Mixed Indoor/Outdoor Environments. Data, 2020, 5, 67.	1.2	28
60	SBOT: A Social Media Based Object Tracking System. , 2020, , .		2
61	Neural Network-Based Alzheimerâ€™s Patient Localization for Wireless Sensor Network in an Indoor Environment. IEEE Access, 2020, 8, 150527-150538.	2.6	34
62	A Survey of Machine Learning for Indoor Positioning. IEEE Access, 2020, 8, 214945-214965.	2.6	125
63	Indoor Positioning System Using Dynamic Model Estimation. Sensors, 2020, 20, 7003.	2.1	10
64	Transformable Fingerprinting with Deep Metric Learning Approach for Indoor Localization. Journal of Physics: Conference Series, 2020, 1575, 012001.	0.3	1
65	Smart Parking System Based on Bluetooth Low Energy Beacons With Particle Filtering. IEEE Systems Journal, 2020, 14, 3371-3382.	2.9	43
66	Memoryless Techniques and Wireless Technologies for Indoor Localization With the Internet of Things. IEEE Internet of Things Journal, 2020, 7, 10996-11005.	5.5	57
68	Indoor Positioning System Using Artificial Neural Network With Swarm Intelligence. IEEE Access, 2020, 8, 84248-84257.	2.6	13
69	RSSI-Based for Device-Free Localization Using Deep Learning Technique. Smart Cities, 2020, 3, 444-455.	5.5	14
70	Gridless Underdetermined DOA Estimation of Wideband LFM Signals With Unknown Amplitude Distortion Based on Fractional Fourier Transform. IEEE Internet of Things Journal, 2020, 7, 11612-11625.	5.5	5
71	A Compact and Cost-Effective BLE Beacon With Multiprotocol and Dynamic Content Advertising for IoT Application. IEEE Internet of Things Journal, 2020, 7, 2309-2320.	5.5	9
72	The Power Gain Difference Method Analysis. Sensors, 2020, 20, 3018.	2.1	3
73	Multipath Map Method for TDOA Based Indoor Reverse Positioning System with Improved Chan-Taylor Algorithm. Sensors, 2020, 20, 3223.	2.1	18

#	ARTICLE	IF	CITATIONS
74	Kalman Filtering-Aided Hybrid Indoor Positioning System With Fingerprinting And Multilateration. , 2020, , .		7
75	Evaluation of Novel Approaches to Software Engineering. Communications in Computer and Information Science, 2020, , .	0.4	0
76	The Practice of Cloud-based Navigation System for Indoor Robot. , 2020, , .		7
77	An Efficient Single-Anchor Localization Method Using Ultra-Wide Bandwidth Systems. Applied Sciences (Switzerland), 2020, 10, 57.	1.3	20
78	BLE Beacons for Indoor Positioning at an Interactive IoT-Based Smart Museum. IEEE Systems Journal, 2020, 14, 3483-3493.	2.9	135
79	Improving BLE Beacon Proximity Estimation Accuracy Through Bayesian Filtering. IEEE Internet of Things Journal, 2020, 7, 3160-3169.	5.5	66
80	RSSI-Based Direction-of-Departure Estimation in Bluetooth Low Energy Using an Array of Frequency-Steered Leaky-Wave Antennas. IEEE Access, 2020, 8, 9380-9394.	2.6	37
81	Geo-Location Information Aided Spectrum Sensing in Cellular Cognitive Radio Networks. Sensors, 2020, 20, 213.	2.1	5
82	A Multi-View Discriminant Learning Approach for Indoor Localization Using Amplitude and Phase Features of CSI. IEEE Access, 2020, 8, 59947-59959.	2.6	19
83	Decentralized adaptive indoor positioning protocol using Bluetooth Low Energy. Computer Communications, 2020, 159, 231-244.	3.1	20
84	Non-Gaussian BLE-Based Indoor Localization Via Gaussian Sum Filtering Coupled with Wasserstein Distance. , 2020, , .		2
85	Real-time gait speed evaluation at home in a multi residents context. Multimedia Tools and Applications, 2021, 80, 12931-12949.	2.6	4
86	FPGA-Based neural network for accurate distance estimation of elderly falls using WSN in an indoor environment. Measurement: Journal of the International Measurement Confederation, 2021, 167, 108276.	2.5	19
87	D _{FOPS} : Deep-Learning-Based Fingerprinting Outdoor Positioning Scheme in Hybrid Networks. IEEE Internet of Things Journal, 2021, 8, 3717-3729.	5.5	13
88	Random Forest Learning Based Indoor Localization as an IoT Service for Smart Buildings. Wireless Personal Communications, 2021, 117, 3209-3227.	1.8	28
89	Spatial seated occupancy detection in offices with a chair-based temperature sensor array. Building and Environment, 2021, 187, 107360.	3.0	16
90	When RSSI encounters deep learning: An area localization scheme for pervasive sensing systems. Journal of Network and Computer Applications, 2021, 173, 102852.	5.8	18
91	A Self-Adaptive AP Selection Algorithm Based on Multiobjective Optimization for Indoor WiFi Positioning. IEEE Internet of Things Journal, 2021, 8, 1406-1416.	5.5	36

#	ARTICLE	IF	CITATIONS
92	A DEEP LEARNING MODEL IMPLEMENTATION BASED ON RSSI FINGERPRINTING FOR LORA-BASED INDOOR LOCALIZATION. EUREKA, Physics and Engineering, 2021, , 40-59.	0.4	6
93	Position Vectors Based Efficient Indoor Positioning System. Computers, Materials and Continua, 2021, 67, 1781-1799.	1.5	4
94	MAC Protocols for IEEE 802.11ah-Based Internet of Things: A Survey. IEEE Internet of Things Journal, 2022, 9, 916-938.	5.5	17
95	Localization for Intelligent Systems Using Unsupervised Learning and Prediction Approaches. Canadian Journal of Electrical and Computer Engineering, 2021, 44, 443-455.	1.5	5
96	An improved adaptive hybrid firefly differential evolution algorithm for passive target localization. Soft Computing, 2021, 25, 5559-5585.	2.1	12
97	Orientation-Matched Multiple Modeling for RSSI-based Indoor Localization via BLE Sensors. , 2021, , .		9
98	Adaptive Indoor Localization System for Large-Scale Area. IEEE Access, 2021, 9, 8847-8865.	2.6	5
99	Localization in mobile wireless sensor networks using drones. Transactions on Emerging Telecommunications Technologies, 0, , e4213.	2.6	3
100	Factors Influencing the Adoption of Geolocation and Proximity Marketing Technologies. Advances in Intelligent Systems and Computing, 2021, , 517-525.	0.5	1
101	Machine Learning Based Indoor Localization Using Wi-Fi RSSI Fingerprints: An Overview. IEEE Access, 2021, 9, 127150-127174.	2.6	69
102	Beyond Anchors: Optimal Equality Constraints in Cooperative Localization. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 47-59.	0.2	0
103	A Comparison of Wireless Standards in IoT for Indoor Localization Using LoPy. IEEE Access, 2021, 9, 65925-65933.	2.6	14
104	Hybrid Indoor Positioning System for Pedestrians With Swinging Arms Based on Smartphone IMU and RSSI of BLE. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	2.4	20
105	LoRa-Based Traffic Flow Detection for Smart-Road. Sensors, 2021, 21, 338.	2.1	11
106	Development and RSSI Testing of IoT Ambient Device for Building Energy Management System. , 2021, , .		2
107	A Minimized Latency Collaborative Computation Offloading Game Under Mobile Edge Computing for Indoor Localization. IEEE Access, 2021, 9, 133861-133874.	2.6	5
108	Feasibility of LoRa for Smart Home Indoor Localization. Applied Sciences (Switzerland), 2021, 11, 415.	1.3	28
109	LoRa RSSI Based Outdoor Localization in an Urban Area Using Random Neural Networks. Lecture Notes in Networks and Systems, 2021, , 1032-1043.	0.5	3

#	ARTICLE	IF	CITATIONS
110	Development of a Smartphone-Based University Library Navigation and Information Service Employing Wi-Fi Location Fingerprinting. <i>Sensors</i> , 2021, 21, 432.	2.1	13
111	loQZ: An Implementation of a Quiet Zone. <i>IEEE Internet of Things Journal</i> , 2022, 9, 8800-8808.	5.5	0
112	Optimization of RSSI based indoor localization and tracking to monitor workers in a hazardous working zone using Machine Learning techniques. , 2021, , .		2
113	High-Accuracy 3D SAW RFID Tag Localization Using a Multi-Antenna Mobile Robot Based Synthetic Aperture Approach. , 2021, , .		1
114	Developing a Novel Real-Time Indoor Positioning System Based on BLE Beacons and Smartphone Sensors. <i>IEEE Sensors Journal</i> , 2021, 21, 23055-23068.	2.4	18
115	Recent Advancements in Radio Frequency based Indoor Localization Techniques. <i>Journal of Physics: Conference Series</i> , 2021, 1755, 012032.	0.3	1
116	V2X-Based Mobile Localization in 3D Wireless Sensor Network. <i>Security and Communication Networks</i> , 2021, 2021, 1-13.	1.0	27
117	BLE Beacon with User Traffic Awareness Using Deep Correlation and Attention Network. , 2021, , .		3
118	Limited Log-Distance Path Loss Model Path Loss Exponent Estimation using Deep Deterministic Policy Gradient. , 2021, , .		3
119	Cooperative Localization for the Internet of Things. , 2021, , .		1
120	3-Dimensional Manifold and Machine Learning Based Localization Algorithm for Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2022, 127, 523-541.	1.8	13
121	Revamping Supermarkets With AI and RSSI*. , 2021, , .		1
122	Internet of Things-enabled Passive Contact Tracing in Smart Cities. <i>Internet of Things (Netherlands)</i> , 2022, 18, 100397.	4.9	12
123	Construction method of "multi-station integration" operation system based on ubiquitous power Internet of Things. , 2021, , .		4
124	Investigation of Indoor LoRaWAN Signal Propagation for Real-World Applications. , 2021, , .		5
125	An Enhanced Indoor Positioning Algorithm Based on Fingerprint Using Fine-Grained CSI and RSSI Measurements of IEEE 802.11n WLAN. <i>Sensors</i> , 2021, 21, 2769.	2.1	35
126	Combining RSSI and Accelerometer Features for Room-Level Localization. <i>Sensors</i> , 2021, 21, 2723.	2.1	4
127	Detecting Anonymous Target and Predicting Target Trajectories in Wireless Sensor Networks. <i>Symmetry</i> , 2021, 13, 719.	1.1	6

#	ARTICLE	IF	CITATIONS
128	DyLoc: Dynamic Localization for Massive MIMO Using Predictive Recurrent Neural Networks. , 2021, , .		8
129	Improved Recursive DV-Hop Localization Algorithm with RSSI Measurement for Wireless Sensor Networks. Sensors, 2021, 21, 4152.	2.1	26
130	Distance Estimation for BLE-based Contact Tracing “ A Measurement Study. , 2021, , .		7
132	Indoor Localization in BLE using Mean and Median Filtered RSSI Values. , 2021, , .		1
133	Feasibility of Standalone TDoA-based Localization Using LoRaWAN. , 2021, , .		5
134	When CVaR Meets With Bluetooth PAN: A Physical Distancing System for COVID-19 Proactive Safety. IEEE Sensors Journal, 2021, 21, 13858-13869.	2.4	10
135	Online Dynamic Window (ODW) Assisted 2-Stage LSTM Indoor Localization for Smart Phones. , 2021, , .		1
136	IoT-Based Smart Home Device Monitor Using Private Blockchain Technology and Localization. IEEE Networking Letters, 2021, 3, 52-55.	1.5	20
137	Bluetooth Low Energy and CNN-Based Angle of Arrival Localization in Presence of Rayleigh Fading. , 2021, , .		14
138	Accuracy analysis of BLE beacon-based localization in smart buildings. Journal of Ambient Intelligence and Smart Environments, 2021, 13, 325-344.	0.8	2
139	Wearable IoTs and Geo-Fencing Based Framework for COVID-19 Remote Patient Health Monitoring and Quarantine Management to Control the Pandemic. Electronics (Switzerland), 2021, 10, 2035.	1.8	21
140	Multiview Variational Deep Learning With Application to Practical Indoor Localization. IEEE Internet of Things Journal, 2021, 8, 12375-12383.	5.5	21
141	A TDOA localization method for complex environment localization. Journal of Physics: Conference Series, 2021, 2004, 012003.	0.3	1
142	Accurate and Low-Complexity Auto-Fingerprinting for Enhanced Reliability of Indoor Localization Systems. Sensors, 2021, 21, 5346.	2.1	6
143	Research on improved localization algorithms RSSI-based in wireless sensor networks. Measurement Science and Technology, 2021, 32, 125113.	1.4	7
144	WiFiNet: WiFi-based indoor localisation using CNNs. Expert Systems With Applications, 2021, 177, 114906.	4.4	23
145	RSS-Based Indoor Localization Using Min-Max Algorithm With Area Partition Strategy. IEEE Access, 2021, 9, 125561-125568.	2.6	13
146	Tracking of Wearable IoT Devices Through WAP Using Intelligent Rule-Based Location Aware Approach. Journal of Information and Knowledge Management, 2021, 20, 2140005.	0.8	2

#	ARTICLE	IF	CITATIONS
147	Localization module for missing child scenario in IoT safety domains. , 2021, , .		0
148	Indoor Positioning System Using Synthetic Training and Data Fusion. IEEE Access, 2021, 9, 115687-115699.	2.6	3
149	IoT-TD: IoT Dataset for Multiple Model BLE-based Indoor Localization/Tracking. , 2021, , .		7
150	Indoor Localization Techniques Within a Home Monitoring Platform. Communications in Computer and Information Science, 2020, , 378-401.	0.4	2
151	Intelligent learning approach for UHF partial discharge localisation in airâ€­insulated substations. High Voltage, 2020, 5, 583-590.	2.7	15
152	A new Wi-Fi dynamic selection of nearest neighbor localization algorithm based on RSS characteristic value extraction by hybrid filtering. Measurement Science and Technology, 2021, 32, 034003.	1.4	7
153	A Three-Photo-Detector Optical Sensor Accurately Localizes a Mobile Robot Indoors by Using Two Infrared Light-Emitting Diodes. IEEE Access, 2020, 8, 87490-87503.	2.6	18
154	RFEye in the Sky. IEEE Transactions on Mobile Computing, 2020, , 1-1.	3.9	3
155	Review of Indoor Positioning: Radio Wave Technology. Applied Sciences (Switzerland), 2021, 11, 279.	1.3	66
156	Intelligent Luminaire based Real-time Indoor Positioning for Assisted Living. , 2020, , .		1
157	Covid-19 Mobile Tracking Application Utilizing Smart Sensors. , 2021, , .		3
158	Comparison of supervised learning-based indoor localization techniques for smart building applications. , 2021, , .		7
159	Outdoor Node Localization Using Random Neural Networks for Large-Scale Urban IoT LoRa Networks. Algorithms, 2021, 14, 307.	1.2	15
160	WiFi Positioning in 3GPP Indoor Office with Modified Particle Swarm Optimization. Applied Sciences (Switzerland), 2021, 11, 9522.	1.3	3
162	Travel Mapping Aid for Blind Persons Using Swarm Intelligence. , 0, , .		0
163	A Wi-Fi Positioning System for Material Transport in Greenhouses. Instrumentation Mesure Metrologie, 2020, 19, 65-72.	0.2	3
164	Unsupervised Manifold Alignment for Wifi RSSI Indoor Localization. , 2020, , .		3
165	Fingerprinting-based Indoor and Outdoor Localization with LoRa and Deep Learning. , 2020, , .		24

#	ARTICLE	IF	CITATIONS
166	Online operational mobility. Technical Papers ... Rio Oil & Gas, 2020, 20, 443-444.	0.0	0
167	Machine Learning Performance for Radio Localization under Correlated Shadowing. , 2020, , .		1
168	The Wireless IoT Device Identification based on Channel State Information Fingerprinting. , 2020, , .		0
169	Coherent Chirp Generation by Narrowband Transceiver Chips for ToF Indoor Localization. , 2020, , .		4
170	RSSI -based Classification for Indoor Localization in Wireless Sensor Networks. , 2020, , .		6
171	Low-Cost Indoor Localization System Combining Multilateration and Kalman Filter. , 2021, , .		5
172	Locally Linear Embedding based Indoor Localization in Internet of Things. , 2021, , .		0
173	Design of Covid-19 Tracing System based on Bluetooth Low Energy. , 2021, , .		0
174	An overview of a low energy UWB localization in IoT based system. , 2021, , .		4
175	Experimental testbed evaluation of cell level indoor localization algorithm using Wi-Fi and LoRa protocols. Ad Hoc Networks, 2022, 125, 102732.	3.4	7
176	Enhanced LoRaWAN RSSI Indoor Localization Based on BP Neural Network. , 2021, , .		3
177	Received Signal Strength based Indoor Positioning with RFID. , 2021, , .		7
178	UbiTrack. , 2021, , .		4
179	Performance evaluation of monitoring IoT systems using LoRaWan. Telecommunication Systems, 2022, 79, 295-308.	1.6	3
180	A Compact Representation of Indoor Trajectories. IEEE Pervasive Computing, 2021, , 1-8.	1.1	2
181	An Improved Indoor Location Algorithm Based on Backpropagation Neural Network. Arabian Journal for Science and Engineering, 2022, 47, 13823-13835.	1.7	5
182	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si30.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:math> constraint kernel adaptive filtering framework for precise and robust indoor localization under the internet of things. Information Sciences, 2022, 587, 206-225.	4.0	11
183	Energy-Efficient Computation Offloading for Indoor Localization Based on Game Theory. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
184	Feature Engineering for Grid-based Multi-Floor Indoor Localisation using Machine Learning. , 2020, , .		3
185	Bluetooth Low Energy-based Angle of Arrival Estimation in Presence of Rayleigh Fading. , 2020, , .		10
186	A Hybrid Variable m-CAP-Based Indoor Visible Light Communications and Fingerprint Positioning System. , 2020, , .		1
187	An Improved Weighted K-Nearest Neighbor Positioning Method in Buildings for Power Distribution Room. , 2021, , .		1
188	Wireless Network uses RSSI (Received Signal Strength Indication) Mechanism for Smart Office Concept. , 2021, , .		2
189	Automatic Beacon Selection for Indoor Localization. , 2021, , .		0
190	RSSI-Based Visitor Tracking in Museums via Cascaded AI Classifiers and Coloured Graph Representations. Collective Dynamics, 0, 6, 1.	0.0	2
191	Implementation of NLOS based FPGA for distance estimation of elderly using indoor wireless sensor networks. Materials Today: Proceedings, 2022, , .	0.9	2
192	Towards data sharing economy on Internet of Things: a semantic for telemetry data. Journal of Big Data, 2022, 9, .	6.9	16
193	Fly, Wake-up, Find: UAV-based Energy-efficient Localization for Distributed Sensor Nodes. Sustainable Computing: Informatics and Systems, 2022, 34, 100666.	1.6	3
194	A Survey on Indoor Positioning Systems for IoT-Based Applications. IEEE Internet of Things Journal, 2022, 9, 7680-7699.	5.5	114
195	Indoor Localization System Using Fingerprinting and Novelty Detection for Evaluation of Confidence. Future Internet, 2022, 14, 51.	2.4	1
196	Wireless Transmissions, Propagation and Channel Modelling for IoT Technologies: Applications and Challenges. IEEE Access, 2022, 10, 24095-24131.	2.6	23
197	IMPLEMENTATION OF RANGE-BASED AND RANGE-FREE 3D INDOOR LOCALIZATION IN MULTI-STORY BUILDING BASED ON RSSI. ASEAN Engineering Journal, 2022, 12, 93-103.	0.2	0
198	Cost-effective filtering of unreliable proximity detection results based on BLE RSSI and IMU readings using smartphones. Scientific Reports, 2022, 12, 2440.	1.6	4
199	A study on the cabin indoor localization algorithm based on adaptive K -values. International Journal of Distributed Sensor Networks, 2022, 18, 155014772110730.	1.3	0
200	Fault-Tolerant indoor localization based on speed conscious recurrent neural network using Kullback-Leibler divergence. Peer-to-Peer Networking and Applications, 2022, 15, 1370-1384.	2.6	7
201	Comparison between the Ultra-wide Band based indoor positioning technology and other technologies. Journal of Physics: Conference Series, 2022, 2187, 012010.	0.3	2

#	ARTICLE	IF	CITATIONS
202	Indoor Positioning of Low-Cost Narrowband IoT Nodes: Evaluation of a TDoA Approach in a Retail Environment. <i>Sensors</i> , 2022, 22, 2663.	2.1	8
203	<scp>Weightedâ€Centroid</scp> localization using <scp>LoRaWAN</scp> network on large outdoor areas. <i>Internet Technology Letters</i> , 2022, 5, .	1.4	0
204	Indoor Positioning System Enhancement Based on Max Receive Signal Strength Using Multi Transmitters. , 2021, , .		2
205	Efficient User Localization in Wireless Networks Using Active Deep Learning. , 2021, , .		0
206	Accurate Anomaly Detection using various Machine Learning methods for IoT devices in Indoor Environment. , 2021, , .		4
207	A Survey of Recent Indoor Localization Scenarios and Methodologies. <i>Sensors</i> , 2021, 21, 8086.	2.1	52
208	Practical Experiences of a Smart Livestock Location Monitoring System Leveraging GNSS, LoRaWAN and Cloud Services. <i>Sensors</i> , 2022, 22, 273.	2.1	15
209	Real-Time Robust and Precise Kernel Learning for Indoor Localization Under the Internet of Things. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
210	Online Dynamic Window (ODW) Assisted Two-Stage LSTM Frameworks For Indoor Localization. <i>Journal of Signal Processing Systems</i> , 2022, 94, 773-786.	1.4	2
211	EmotiphAI: a biocybernetic engine for real-time biosignals acquisition in a collective setting. <i>Neural Computing and Applications</i> , 2023, 35, 5721-5736.	3.2	2
212	Feasibility Study of Magnetism-based Indoor Positioning Methods in an Incineration Plant. , 2022, , .		0
213	Machine Learning for Wireless Distance Estimation Model Parameter Estimation for Breadcrumb Localization Applications. , 2022, , .		0
214	Performance analysis of fingerprinting indoor positioning methods with BLE. <i>Expert Systems With Applications</i> , 2022, 202, 117095.	4.4	19
215	Measuring and Modeling Multipath of Wi-Fi to Locate People in Indoor Environments. , 2021, , .		0
216	Electronic System for Monitoring Quality of Air and Atmospheric Conditions with Autonomous Power Supply System. , 2020, , .		0
217	Transmission Power Influence on WSN-Based Indoor Localization Efficiency. <i>Sensors</i> , 2022, 22, 4154.	2.1	7
218	LoRaWAN Based Indoor Localization Using Random Neural Networks. <i>Information (Switzerland)</i> , 2022, 13, 303.	1.7	10
219	User-BS Selection Strategy Optimization with RSSI-Based Reliability in 5G Wireless Networks. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6082.	1.3	1

#	ARTICLE	IF	CITATIONS
220	A Physical Layer, Zero-Round-Trip-Time, Multifactor Authentication Protocol. IEEE Access, 2022, 10, 74555-74571.	2.6	3
221	Robust Localization System Using Vector Combination in Wireless Sensor Networks. IEEE Access, 2022, 10, 73437-73445.	2.6	2
223	A Mini-Review on Radio Frequency Fingerprinting Localization in Outdoor Environments: Recent Advances and Challenges. , 2022, , .		1
224	Localization within Hostile Indoor Environments for Emergency Responders. Sensors, 2022, 22, 5134.	2.1	5
226	RSS based multistage statistical method for attack detection and localization in IoT networks. Pervasive and Mobile Computing, 2022, 85, 101648.	2.1	0
227	UWB indoor positioning optimization algorithm based on genetic annealing and clustering analysis. Frontiers in Neurorobotics, 0, 16, .	1.6	3
228	A Survey on Localization in Internet of Things: Techniques, Approaches, Technologies and Challenges. , 2022, , .		0
229	Accuracy and Latency Tradeoffs for WiFi and BLE in an Indoor Localization System. , 2022, , .		1
230	An Efficient IAKF Approach for Indoor Positioning Drift Correction. Sensors, 2022, 22, 5697.	2.1	2
231	Calibration-Free 3D Indoor Positioning Algorithms Based on DNN and DIFF. Sensors, 2022, 22, 5891.	2.1	5
232	Self-Sufficient Sensor Node Embedding 2D Visible Light Positioning through a Solar Cell Module. Sensors, 2022, 22, 5869.	2.1	3
233	Inter-User Distance Estimation Based on a New Type of Fingerprint in Massive MIMO System for COVID-19 Contact Detection. Sensors, 2022, 22, 6211.	2.1	0
234	Sensor fusion for indoor positioning system through improved RSSI and PDR methods. Future Generation Computer Systems, 2023, 138, 254-269.	4.9	9
235	Comparison of Neural Network Training Algorithms for Indoor Localization. Lecture Notes in Electrical Engineering, 2022, , 697-706.	0.3	0
236	Game Theoretic Approach for Optimal Number of Anchors with Minimum Latency for Indoor Localization in Mobile Edge Computing. SSRN Electronic Journal, 0, , .	0.4	0
237	Deep Learning and Internet of Things (IoT) Based Monitoring System for Miners. Journal of Mining Science, 2022, 58, 325-337.	0.1	0
238	Path Loss Investigation in Hall Environment at Centimeter and Millimeter-Wave Bands. Sensors, 2022, 22, 6593.	2.1	3
239	RSSI study of wireless Internet of Things technologies. Journal of Physics: Conference Series, 2022, 2339, 012014.	0.3	1

#	ARTICLE	IF	CITATIONS
240	EIPSO: An Energy Efficient Indoor Positioning System based on Game Theory. Mobile Networks and Applications, 0, , .	2.2	3
241	3-D Indoor Localization and Identification Through RSSI-Based Angle of Arrival Estimation With Real Wi-Fi Signals. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 4511-4527.	2.9	11
242	Simple and Accurate Received Signal Strength-Based Localization Using Compact Null-Steering Antennas. IEEE Antennas and Wireless Propagation Letters, 2023, 22, 417-421.	2.4	2
243	LoRaWAN: Lost for Localization?. IEEE Sensors Journal, 2022, 22, 23307-23319.	2.4	6
244	Bluetooth Low Energy-based Indoor Localization using Artificial Intelligence. , 2022, 2, 1-15.		1
245	AI-Based Positioning with Input Parameter Optimization in Indoor VLC Environments. Sensors, 2022, 22, 8125.	2.1	1
246	Bluetooth low energy indoor localization for large industrial areas and limited infrastructure. Ad Hoc Networks, 2023, 139, 103024.	3.4	9
247	A novel deep learning approach using blurring image techniques for Bluetooth-based indoor localisation. Information Fusion, 2023, 91, 173-186.	11.7	7
248	Multiple Model BLE-based Tracking via Validation of RSSI Fluctuations under Different Conditions. , 2019, , .		1
249	RSSI: Lost and Alone, a Case for Redundancy. , 2022, , .		0
250	Measurements and Models of 915 MHz LoRa Radio Propagation in an Underground Gold Mine. Sensors, 2022, 22, 8653.	2.1	5
251	Use of real time localization systems (RTLS) in the automotive production and the prospects of 5G â€“ A literature review. Production and Manufacturing Research, 2022, 10, 840-874.	0.9	2
252	RSSI-based Hybrid Centroid-K-Nearest Neighbors localization method. Telecommunication Systems, 2023, 82, 101-114.	1.6	3
253	A Review of Device-Free Indoor Positioning for Home-Based Care of the Aged: Techniques and Technologies. CMES - Computer Modeling in Engineering and Sciences, 2023, 135, 1901-1940.	0.8	1
254	RSSI Indoor Localization Method Base on RAUKF. , 2022, , .		0
255	Real-Time Indoor Localization and Altitude Monitoring using Self-Adaptive Algorithm. , 2022, , .		0
256	To the Green from the Bl(u): An innovative system for monitoring urban green areas. , 2022, , .		2
257	Hybrid Indoor Localization System Combining Multilateration and Fingerprinting. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
258	New Design of Antenna Array for Bluetooth Direction Finding. , 2022, , .		0
259	Zone-Based Federated Learning in Indoor Positioning. , 2022, , .		1
260	Mobility Intelligence: Machine Learning Methods for Received Signal Strength Indicator-based Passive Outdoor Localization. Advances in Science, Technology and Engineering Systems, 2022, 7, 269-282.	0.4	0
261	Research on Indoor 3D Positioning Algorithm Based on WiFi Fingerprint. Sensors, 2023, 23, 153.	2.1	8
262	Machine Learning Approach towards LoRaWAN Indoor Localization. Electronics (Switzerland), 2023, 12, 457.	1.8	5
263	Deep Learning Multi-Class Approach for Human Fall Detection Based on Doppler Signatures. International Journal of Environmental Research and Public Health, 2023, 20, 1123.	1.2	3
264	Kernel-based online prediction algorithms for indoor localization in Internet of Things. Expert Systems With Applications, 2023, 217, 119547.	4.4	1
265	Effect of Construction Materials on Indoor Positioning System using Bluetooth Low Energy. , 2022, , .		0
266	Uncertainty-boosted radiomap-based indoor positioning with RSSI fingerprints. , 2022, , .		2
267	Proposal for Low-Layer Metadata Collection Technology to Enhance IoT Metadata Utilization. IEEE Access, 2023, 11, 11078-11088.	2.6	0
268	Long-distance multifunctional wireless sensing platform for identifying and ranging. Nano Energy, 2023, 109, 108267.	8.2	1
269	Real-time robust and precise kernel learning for indoor localization under the internet of things. Signal Processing, 2023, 208, 108979.	2.1	2
270	Introductory Chapter: An Overview to the Internet of Things. , 0, , .		2
271	Considerations on Fish sensor network installation. , 2022, , .		0
272	Indoor positioning using circle expansion-based adaptive trilateration algorithm. Journal of Electrical Systems and Information Technology, 2023, 10, .	1.2	2
273	FedBeam: Federated learning based privacy preserved localization for mass-Beamforming in 5GB. , 2023, , .		0
274	Hybrid Learning for Mobile Ad-Hoc Distancing/Positioning Using Bluetooth Low Energy. IEEE Internet of Things Journal, 2023, 10, 12293-12307.	5.5	2
275	Personal VOCs Exposure with a Sensor Network Based on Low-Cost Gas Sensor, and Machine Learning Enabled Indoor Localization. Sensors, 2023, 23, 2457.	2.1	0

#	ARTICLE	IF	CITATIONS
276	Understanding LoRa-Based Localization: Foundations and Challenges. IEEE Internet of Things Journal, 2023, 10, 11185-11198.	5.5	3
277	Micromechanical RSSI Based on Force Interaction Derived Tapping Bandwidth Variation in VIBRO-IMPACT Resonators. , 2023, , .		1
278	Adaptive Path Loss Model for BLE Indoor Positioning System. IEEE Internet of Things Journal, 2023, 10, 12898-12907.	5.5	2
279	A new localization mechanism in IoT using grasshopper optimization algorithm and DVHOP algorithm. Wireless Networks, 0, , .	2.0	3
280	Battery-Powered RSU Running Time Monitoring and Prediction Using ML Model Based on Received Signal Strength and Data Transmission Frequency in V2I Applications. Sensors, 2023, 23, 3536.	2.1	0
281	Path loss measurement and modeling of 5G network in emergency indoor stairwell at 3.7 and 28 GHz. PLoS ONE, 2023, 18, e0282781.	1.1	5
282	Sensing-Aware Machine Learning Framework for Extended Lifetime of IoT Sensors. IEEE Transactions on Mobile Computing, 2024, 23, 3005-3017.	3.9	0
283	Recent Breakthroughs in Cognitive Informatics and Cognitive Computing towards Autonomous AI (Plenary Panel Report-I of IEEE ICCI*CC'22). , 2022, , .		1
291	Virtual Fences: A Systematic Literature Review. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 115-148.	0.2	0
292	Indoor Localization Using Trilateration and Location Fingerprinting Methods. , 2023, , 71-99.		0
296	Embedded Machine Learning for 3D Indoor Visible Light Positioning via Optimized Fingerprinting. , 2023, , .		0
297	Efficient Universal Indoor Multicharacteristic Propagation model for indoor environments. , 2023, , .		0
298	Data Imputation for Sparse Radio Maps in Indoor Positioning. , 2023, , .		0
301	VoiceGuard: An Effective and Practical Approach for Detecting and Blocking Unauthorized Voice Commands to Smart Speakers. , 2023, , .		0
303	Joint emitter detection and tracking based on the Bernoulli filter. , 2023, , .		0
305	IoT Sentinel: Correlation-based Attack Detection, Localization, and Authentication in IoT Networks. , 2023, , .		0
313	Theoretical Landscape of LPWANs. , 2023, , 3-37.		0
322	GoPlaces: An App for Personalized Indoor Place Prediction. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
325	Design and Implementation of Web Admin Based Indoor Localization for the Visually Impaired with Real-Time Monitoring Technology. , 2023, , .		0
326	Ultra-Precise Synchronization for TDoA-based Localization Using Signals of Opportunity. , 2023, , .		0
327	Study on a Visible Light Communication and Positioning System Utilizing an Optical Diffusion Filter and Rolling Shutter Sensor. , 2023, , .		0
329	Lightweight Authentication in Edge Collaborations Utilizing Multi-dimensional Historical Information: Design and Implementation. , 2023, , .		0
330	An Improved Phase-Unwrapping Method for Unwrapped Phase based RFID Localization. , 2023, , .		0
332	Kalman filter for RSSI-based indoor positioning system with min-max technique. AIP Conference Proceedings, 2023, , .	0.3	0
333	Indoor localization technologies for activity-assisted living: Opportunities, challenges, and future directions. Advances in Computers, 2024, , 59-98.	1.2	0
335	A K-NN based Area Positioning System in Wireless Sensor Networks. , 2023, , .		0
336	A survey on optimal indoor objects localization in internet of things based on deep learning. AIP Conference Proceedings, 2023, , .	0.3	0
338	IoT Educational Management and Consultancy System for Egyptian Public Schools. , 2023, , .		0
342	Design and Development of an IoT Enabled Multi Features Smart Bag and Womenâ€™s Security Monitoring System. , 2023, , .		0
346	Monitoring Greenhouse Room Temperature with Dragino LoRaWAN Gateway DLOS8N. , 2023, , .		0
348	Real-Time Investigation of LoRaWAN Architecture by LoRa Communication Module and Ultrasonic Sensor. , 2023, , .		0
349	An Improved Positioning System For 6G Cellular Network. , 2023, , .		0
350	Enhancing RF Fingerprinting for Indoor Positioning Systems Using Data Augmentation. , 2024, , .		0