

Maarten Weyn

List of Publications by Year in descending order

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61
papers

1,132
citations

430754

18
h-index

477173

29
g-index

64
all docs

64
docs citations

64
times ranked

1027
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-calibration and Collaborative Localization for UWB Positioning Systems. ACM Computing Surveys, 2022, 54, 1-27.	16.1	40
2	Vehicle Localization Using Doppler Shift and Time of Arrival Measurements in a Tunnel Environment. Sensors, 2022, 22, 847.	2.1	8
3	Joint Communication and Sensing: A Proof of Concept and Datasets for Greenhouse Monitoring Using LoRaWAN. Sensors, 2022, 22, 1326.	2.1	6
4	Angle of Arrival Estimation System for LoRa Technology based on Phase Detectors. , 2022, , .		5
5	Battery-Less Environment Sensor Using Thermoelectric Energy Harvesting from Soil-Ambient Air Temperature Differences. Sensors, 2022, 22, 4737.	2.1	6
6	Geodesic Path Model for Indoor Propagation Loss Prediction of Narrowband Channels. Sensors, 2022, 22, 4903.	2.1	2
7	Sensing Thousands of Visitors Using Radio Frequency. IEEE Systems Journal, 2021, 15, 5090-5093.	2.9	5
8	Sub-GHz Cooperative Container Stack Estimation. , 2021, , .		1
9	AgriFusion: An Architecture for IoT and Emerging Technologies Based on a Precision Agriculture Survey. IEEE Access, 2021, 9, 136253-136283.	2.6	55
10	AoA-Based Localization System Using a Single IoT Gateway: <i>An Application for Smart Pedestrian Crossing</i>. IEEE Access, 2021, 9, 13532-13541.	2.6	10
11	LoRay: AoA Estimation System for Long Range Communication Networks. IEEE Transactions on Wireless Communications, 2021, 20, 2005-2018.	6.1	22
12	Comparing Localization Performance of IEEE 802.11p and LTE-V V2I Communications. Sensors, 2021, 21, 2031.	2.1	12
13	AoA Estimates for LPWAN Technologies: Indoor Experimental Analysis. , 2021, , .		3
14	Chest-Worn Inertial Sensors: A Survey of Applications and Methods. Sensors, 2021, 21, 2875.	2.1	28
15	Field application of a novel active-passive sampling technique for the simultaneous measurement of a wide range of contaminants in water. Chemosphere, 2021, 279, 130598.	4.2	7
16	Activity Monitoring at an Intersection Using a Sub-GHz Wireless Sensor Network. , 2021, , .		0
17	Device-Free Localization and Identification Using Sub-GHz Passive Radio Mapping. Applied Sciences (Switzerland), 2020, 10, 6183.	1.3	1
18	LoRaWAN Geo-Tracking Using Map Matching and Compass Sensor Fusion. Sensors, 2020, 20, 5815.	2.1	7

#	ARTICLE	IF	CITATIONS
19	A Multimodal Localization Framework Design for IoT Applications. <i>Sensors</i> , 2020, 20, 4622.	2.1	7
20	RSS-based AoA Estimation System for IoT Applications using Rotman Lens. , 2020, , .		3
21	Experimental Study on the Impact of Antenna Characteristics on Non-Stationary V2I Channel Parameters in Tunnels. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 12396-12407.	3.9	11
22	Energy Consumption Analysis of LPWAN Technologies and Lifetime Estimation for IoT Application. <i>Sensors</i> , 2020, 20, 4794.	2.1	64
23	LoRa 2.4 GHz Communication Link and Range. <i>Sensors</i> , 2020, 20, 4366.	2.1	36
24	RSS-Based Localization and Mobility Evaluation Using a Single NB-IoT Cell. <i>Sensors</i> , 2020, 20, 6172.	2.1	8
25	Large-Scale Crowd Analysis through the Use of Passive Radio Sensing Networks. <i>Sensors</i> , 2020, 20, 2624.	2.1	9
26	TDAoA: A combination of TDoA and AoA localization with LoRaWAN. <i>Internet of Things (Netherlands)</i> , 2020, 11, 100236.	4.9	22
27	Benchmarking RSS-based localization algorithms with LoRaWAN. <i>Internet of Things (Netherlands)</i> , 2020, 11, 100235.	4.9	29
28	Combining TDoA and AoA with a particle filter in an outdoor LoRaWAN network. , 2020, , .		9
29	A Primer on Real-world RSS-based Outdoor NB-IoT Localization. , 2020, , .		10
30	Synchronization and efficient channel hopping for power efficiency in LoRa networks: A comprehensive study. <i>Internet of Things (Netherlands)</i> , 2020, 11, 100233.	4.9	8
31	Energy Efficient Wireless Communication for IoT Enabled Greenhouses. , 2020, , .		23
32	Compass Aided TDoA Tracking in LoRaWAN networks. , 2020, , .		3
33	Large-Scale Dataset for Radio Frequency-Based Device-Free Crowd Estimation. <i>Data</i> , 2020, 5, 52.	1.2	8
34	ANGLE: ANGular Location Estimation Algorithms. <i>IEEE Access</i> , 2020, 8, 14620-14629.	2.6	14
35	Leveraging LoRaWAN Technology for Precision Agriculture in Greenhouses. <i>Sensors</i> , 2020, 20, 1827.	2.1	58
36	Comparing Machine Learning Algorithms for RSS-Based Localization in LPWAN. <i>Lecture Notes in Networks and Systems</i> , 2020, , 726-735.	0.5	11

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37	Simulating a Combination of TDoA and AoA Localization for LoRaWAN. Lecture Notes in Networks and Systems, 2020, , 756-765.	0.5	6
38	Time Synchronization with Channel Hopping Scheme for LoRa Networks. Lecture Notes in Networks and Systems, 2020, , 786-797.	0.5	7
39	Leveraging MEC in a 5G System for Enhanced Back Situation Awareness. , 2020, , .		5
40	Characterization of the accumulation of metals and organic contaminants on a novel active-passive sampling device under controlled water flow conditions. Chemosphere, 2019, 236, 124400.	4.2	5
41	A Survey on Detection, Tracking and Identification in Radio Frequency-Based Device-Free Localization. Sensors, 2019, 19, 5329.	2.1	31
42	Synchronization of Multiple Independent Subarray Antennas: An Application for Angle of Arrival Estimation. IEEE Transactions on Antennas and Propagation, 2019, 67, 1223-1232.	3.1	22
43	Outdoor Fingerprinting Localization Using Sigfox. , 2018, , .		28
44	Large Scale Crowd Density Estimation Using a sub-GHz Wireless Sensor Network. , 2018, , .		6
45	A Comparison of Signal Strength Localization Methods with Sigfox. , 2018, , .		27
46	Accurate Energy Consumption Modeling of IEEE 802.15.4e TSCH Using Dual-Band OpenMote Hardware. Sensors, 2018, 18, 437.	2.1	19
47	MapFuse: Complete and Realistic 3D Modelling. Journal of Robotics, 2018, 2018, 1-13.	0.6	2
48	Flexible Multimodal Sub-Gigahertz Communication for Heterogeneous Internet of Things Applications. IEEE Communications Magazine, 2018, 56, 146-153.	4.9	51
49	Sigfox and LoRaWAN Datasets for Fingerprint Localization in Large Urban and Rural Areas. Data, 2018, 3, 13.	1.2	104
50	Realistic Indoor Radio Propagation for Sub-GHz Communication. Sensors, 2018, 18, 1788.	2.1	1
51	Comparing 433 and 868 MHz Active RFID for Indoor Localization Using Multi-Wall Model. , 2018, , .		1
52	A novel active-passive sampling approach for measuring time-averaged concentrations of pollutants in water. Chemosphere, 2018, 209, 363-372.	4.2	22
53	Sub-GHz LPWAN Network Coexistence, Management and Virtualization: An Overview and Open Research Challenges. Wireless Personal Communications, 2017, 95, 187-213.	1.8	46
54	A realistic evaluation of indoor positioning systems based on Wi-Fi fingerprinting: The 2015 ETRI competition. Journal of Ambient Intelligence and Smart Environments, 2017, 9, 263-279.	0.8	34

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55	Adaptive probabilistic model using angle of arrival estimation for IoT indoor localization. , 2017, , .		18
56	Localization in Low Power Wide Area Networks Using Wi-Fi Fingerprints. Applied Sciences (Switzerland), 2017, 7, 936.	1.3	12
57	Conditional Entropy and Location Error in Indoor Localization Using Probabilistic Wi-Fi Fingerprinting. Sensors, 2016, 16, 1636.	2.1	24
58	DASH7 Alliance Protocol in Monitoring Applications. , 2015, , .		5
59	DASH7 alliance protocol 1.0: Low-power, mid-range sensor and actuator communication. , 2015, , .		48
60	Large Scale Distributed Localization Based on RSS and Mass-Spring Model. , 2015, , .		2
61	Survey of the DASH7 Alliance Protocol for 433â€‰MHz Wireless Sensor Communication. International Journal of Distributed Sensor Networks, 2013, 9, 870430.	1.3	42