

Moustafa Amin Youssef

List of Publications by Year in descending order

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Version: 2024-02-01

192
papers

9,612
citations

257450

24
h-index

182427

51
g-index

196
all docs

196
docs citations

196
times ranked

5027
citing authors

#	ARTICLE	IF	CITATIONS
1	The Horus WLAN location determination system. , 2005, , .		1,157
2	No need to war-drive. , 2012, , .		640
3	WLAN location determination via clustering and probability distributions. , 0, , .		554
4	WiGest: A ubiquitous WiFi-based gesture recognition system. , 2015, , .		368
5	Energy-aware routing in cluster-based sensor networks. , 0, , .		309
6	The Horus location determination system. Wireless Networks, 2008, 14, 357-374.	3.0	295
7	Routing Metrics of Cognitive Radio Networks: A Survey. IEEE Communications Surveys and Tutorials, 2014, 16, 92-109.	39.4	292
8	Nuzzer: A Large-Scale Device-Free Passive Localization System for Wireless Environments. IEEE Transactions on Mobile Computing, 2013, 12, 1321-1334.	5.8	278
9	UbiBreathe. , 2015, , .		180
10	CrowdInside. , 2012, , .		178
11	Energy-aware management for cluster-based sensor networks. Computer Networks, 2003, 43, 649-668.	5.1	176
12	WiDeep: WiFi-based Accurate and Robust Indoor Localization System using Deep Learning. , 2019, , .		169
13	CellSense: An Accurate Energy-Efficient GSM Positioning System. IEEE Transactions on Vehicular Technology, 2012, 61, 286-296.	6.3	153
14	PinPoint. , 2006, , .		145
15	UPTIME: Ubiquitous pedestrian tracking using mobile phones. , 2012, , .		144
16	SemanticSLAM: Using Environment Landmarks for Unsupervised Indoor Localization. IEEE Transactions on Mobile Computing, 2016, 15, 1770-1782.	5.8	137
17	Smart ceives for smart environments: Device-free passive detection in real environments. , 2009, , .		132
18	Overlapping Multihop Clustering for Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 1844-1856.	5.6	130

#	ARTICLE	IF	CITATIONS
19	Handling samples correlation in the Horus system. , 0, , .		112
20	Ichnaea: A Low-Overhead Robust WLAN Device-Free Passive Localization System. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 5-15.	10.8	97
21	ACE: An Accurate and Efficient Multi-Entity Device-Free WLAN Localization System. IEEE Transactions on Mobile Computing, 2015, 14, 261-273.	5.8	85
22	A Ubiquitous WiFi-Based Fine-Grained Gesture Recognition System. IEEE Transactions on Mobile Computing, 2019, 18, 2474-2487.	5.8	84
23	A constrained shortest-path energy-aware routing algorithm for wireless sensor networks. , 0, , .		80
24	GAC: Energy-Efficient Hybrid GPS-Accelerometer-Compass GSM Localization. , 2010, , .		80
25	RASID: A robust WLAN device-free passive motion detection system. , 2012, , .		79
26	MonoPHY: Mono-stream-based device-free WLAN localization via physical layer information. , 2013, , .		75
27	CellinDeep: Robust and Accurate Cellular-Based Indoor Localization via Deep Learning. IEEE Sensors Journal, 2019, 19, 2305-2312.	4.7	71
28	Propagation Modeling for Accurate Indoor WLAN RSS-Based Localization. , 2010, , .		69
29	Accurate Real-time Map Matching for Challenging Environments. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 847-857.	8.0	69
30	Dejavu. , 2013, , .		68
31	Small-scale compensation for WLAN location determination systems. , 0, , .		66
32	TransitLabel. , 2016, , .		65
33	A Hidden Markov Model for Localization Using Low-End GSM Cell Phones. , 2011, , .		62
34	WSN16-5: Distributed Formation of Overlapping Multi-hop Clusters in Wireless Sensor Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	61
35	CellSense: A Probabilistic RSSI-Based GSM Positioning System. , 2010, , .		58
36	RF-Based Vehicle Detection and Speed Estimation. , 2012, , .		58

#	ARTICLE	IF	CITATIONS
37	WiGest demo: A ubiquitous WiFi-based gesture recognition system. , 2015, , .		55
38	Synthetic Generation of Radio Maps for Device-Free Passive Localization. , 2011, , .		53
39	DeepLoc. , 2018, , .		53
40	It's the Human that Matters: Accurate User Orientation Estimation for Mobile Computing Applications. , 2014, , .		50
41	CrossCount: A Deep Learning System for Device-Free Human Counting Using WiFi. IEEE Sensors Journal, 2019, 19, 9921-9928.	4.7	46
42	A deterministic large-scale device-free passive localization system for wireless environments. , 2010, , .		45
43	SolarGest. , 2019, , .		45
44	A location-aided routing protocol for cognitive radio networks. , 2013, , .		43
45	semMatch. , 2015, , .		43
46	LaneQuest: An accurate and energy-efficient lane detection system. , 2015, , .		43
47	Analysis of a Device-Free Passive Tracking System in Typical Wireless Environments. , 2009, , .		41
48	A Robust Zero-Calibration RF-Based Localization System for Realistic Environments. , 2016, , .		41
49	SenseIO: Realistic Ubiquitous Indoor Outdoor Detection System Using Smartphones. IEEE Sensors Journal, 2018, 18, 3684-3693.	4.7	40
50	Bandwidth aggregation techniques in heterogeneous multi-homed devices: A survey. Computer Networks, 2015, 92, 168-188.	5.1	39
51	Rover: scalable location-aware computing. Computer, 2002, 35, 46-53.	1.1	38
52	Multivariate analysis for probabilistic WLAN location determination systems. , 2005, , .		37
53	Accurate and Energy-Efficient GPS-Less Outdoor Localization. ACM Transactions on Spatial Algorithms and Systems, 2017, 3, 1-31.	1.4	37
54	TrueStory: Accurate and Robust RF-Based Floor Estimation for Challenging Indoor Environments. IEEE Sensors Journal, 2018, 18, 10115-10124.	4.7	37

#	ARTICLE	IF	CITATIONS
55	Keys Through ARQ: Theory and Practice. IEEE Transactions on Information Forensics and Security, 2011, 6, 737-751.	6.9	36
56	New insights into wifi-based device-free localization. , 2013, , .		36
57	Robust and ubiquitous smartphone-based lane detection. Pervasive and Mobile Computing, 2016, 26, 35-56.	3.3	35
58	MonoDCell. , 2019, , .		33
59	Robust WLAN Device-free Passive motion detection. , 2012, , .		31
60	CheckInside. , 2014, , .		31
61	Achievable Secrecy Rate Regions for the Two-Way Wiretap Channel. IEEE Transactions on Information Theory, 2013, 59, 8099-8114.	2.4	30
62	Efficient aggregation of delay-constrained data in wireless sensor networks. , 0, , .		29
63	A new routing metric and protocol for multipath routing in cognitive networks. , 2011, , .		29
64	Automatic Rich Map Semantics Identification Through Smartphone-Based Crowd-Sensing. IEEE Transactions on Mobile Computing, 2017, 16, 2712-2725.	5.8	28
65	SemSense: Automatic construction of semantic indoor floorplans. , 2015, , .		26
66	Accurate and efficient map matching for challenging environments. , 2014, , .		25
67	Towards truly ubiquitous indoor localization on a worldwide scale. , 2015, , .		25
68	Differential Channel-State-Information-Based Human Activity Recognition in IoT Networks. IEEE Internet of Things Journal, 2020, 7, 11290-11302.	8.7	25
69	Continuous space estimation for WLAN location determination systems. , 0, , .		24
70	On the delay limited secrecy capacity of fading channels. , 2009, , .		24
71	Enabling wide deployment of GSM localization over heterogeneous phones. , 2013, , .		24
72	Hybrid participatory sensing for analyzing group dynamics in the largest annual religious gathering. , 2015, , .		24

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73	Cooperation-based multi-hop routing protocol for cognitive radio networks. Journal of Network and Computer Applications, 2018, 110, 27-42.	9.1	24
74	Device-independent cellular-based indoor location tracking using deep learning. Pervasive and Mobile Computing, 2021, 75, 101420.	3.3	24
75	RF-Based Traffic Detection and Identification. , 2012, , .		23
76	GreenLoc: An energy efficient architecture for WiFi-based indoor localization on mobile phones. , 2013, , .		23
77	The Tale of Two Localization Technologies. , 2017, , .		23
78	Accurate indoor positioning using IEEE 802.11mc round trip time. Pervasive and Mobile Computing, 2021, 75, 101416.	3.3	22
79	A source authentication scheme using network coding. International Journal of Security and Networks, 2011, 6, 101.	0.2	20
80	Multi-entity device-free WLAN localization. , 2012, , .		20
81	Map++: A crowd-sensing system for automatic map semantics identification. , 2014, , .		20
82	Gain Without Pain. , 2020, , .		20
83	Impact of the human motion on the variance of the received signal strength of wireless links. , 2011, , .		19
84	The StoryTeller. , 2020, 4, 1-20.		18
85	AROMA. , 2011, , .		17
86	A Fine-Grained Indoor Location-Based Social Network. IEEE Transactions on Mobile Computing, 2017, 16, 1203-1217.	5.8	17
87	HyRise. , 2018, 2, 1-23.		17
88	Specification and analysis of the DCF and PCF protocols in the 802.11 standard using systems of communicating machines. , 0, , .		16
89	RASID demo: A robust WLAN device-free passive motion detection system. , 2012, , .		16
90	Opportunistic Secrecy with a Strict Delay Constraint. IEEE Transactions on Communications, 2013, 61, 4700-4709.	7.8	16

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91	An optimal deployable bandwidth aggregation system. Computer Networks, 2013, 57, 3067-3080.	5.1	15
92	MagBoard: Magnetic-Based Ubiquitous Homomorphic Off-the-Shelf Keyboard. , 2016, , .		15
93	HyberLoc: Providing Physical Layer Location Privacy in Hybrid Sensor Networks. , 2010, , .		14
94	Dead zone penetration protocol for cognitive radio networks. , 2013, , .		14
95	BLEDoorGuard: A Device-Free Person Identification Framework Using Bluetooth Signals for Door Access. IEEE Internet of Things Journal, 2018, 5, 5227-5239.	8.7	14
96	ARQ secrecy: From theory to practice. , 2009, , .		13
97	Distributed Flooding-Based Storage Algorithms for Large-Scale Wireless Sensor Networks. , 2009, , .		13
98	An Analysis of Device-Free and Device-Based WiFi-Localization Systems. International Journal of Ambient Computing and Intelligence, 2014, 6, 1-19.	1.1	13
99	Toward dynamic real-time geo-location databases for TV white spaces. IEEE Network, 2015, 29, 76-82.	6.9	13
100	Primary User-Aware Optimal Discovery Routing for Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2019, 18, 193-206.	5.8	13
101	A Ubiquitous and Accurate Floor Estimation System Using Deep Representational Learning. , 2020, , .		13
102	Kalman filter-based tracking of a device-free passive entity in wireless environments. , 2011, , .		12
103	Zephyr: Ubiquitous accurate multi-sensor fusion-based respiratory rate estimation using smartphones. , 2016, , .		12
104	Over-The-Air TV Detection Using Mobile Devices. , 2017, , .		12
105	JustWalk: A Crowdsourcing Approach for the Automatic Construction of Indoor Floorplans. IEEE Transactions on Mobile Computing, 2019, 18, 2358-2371.	5.8	12
106	Deep Learning-based Floor Prediction Using Cell Network Information. , 2020, , .		12
107	The Diversity and Scale Matter: Ubiquitous Transportation Mode Detection Using Single Cell Tower Information. , 2015, , .		11
108	Towards ubiquitous indoor spatial awareness on a worldwide scale. SIGSPATIAL Special, 2017, 9, 36-43.	2.7	11

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109	Next Generation IoT: Toward Ubiquitous Autonomous Cost-Efficient IoT Devices. IEEE Pervasive Computing, 2019, 18, 8-11.	1.3	11
110	New achievable secrecy rate regions for the two way wiretap channel. , 2010, , .		10
111	What Goes Around Comes Around: Mobile Bandwidth Sharing and Aggregation. , 2015, , .		10
112	Who Opened the Room? Device-Free Person Identification Using Bluetooth Signals in Door Access. , 2017, , .		10
113	Transformative Computing and Communication. Computer, 2019, 52, 12-14.	1.1	10
114	OPERETTA: An optimal energy efficient bandwidth aggregation system. , 2012, , .		9
115	Activity recognition of railway passengers by fusion of low-power sensors in mobile phones. , 2015, , .		9
116	Zero-Calibration Device-Free Localization for the IoT Based on Participatory Sensing. , 2018, , .		9
117	Establishing overlapped multihop clusters in wireless sensor networks. International Journal of Sensor Networks, 2007, 2, 108.	0.4	8
118	CellNet: A Bottom-Up Approach to Network Design. , 2009, , .		8
119	A low-cost large-scale framework for cognitive radio routing protocols testing. , 2013, , .		8
120	Towards a characterization of white spaces databases errors. , 2014, , .		8
121	Demonstrating map++ A crowd-sensing system for automatic map semantics identification. , 2014, , .		8
122	CoSDEO 2016 Keynote: A decade later â€” Challenges: Device-free passive localization for wireless environments. , 2016, , .		8
123	Towards Ubiquitous Accessibility Digital Maps for Smart Cities. , 2017, , .		8
124	CrowdMeter: Gauging congestion level in railway stations using smartphones. Pervasive and Mobile Computing, 2019, 58, 101014.	3.3	8
125	DeepFeat: Robust Large-Scale Multi-Features Outdoor Localization in LTE Networks Using Deep Learning. IEEE Access, 2022, 10, 3400-3414.	4.2	8
126	Laser Range Scanners for Enabling Zero-overhead WiFi-based Indoor Localization System. ACM Transactions on Spatial Algorithms and Systems, 2023, 9, 1-25.	1.4	8

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127	DBAS: A Deployable Bandwidth Aggregation System. , 2012, , .		7
128	A calibration-free RF localization system. , 2015, , .		7
129	DNIS. Mobile Computing and Communications Review, 2010, 14, 16-18.	1.7	7
130	Optimal Network-Based Intervention in the Presence of Undetectable Viruses. IEEE Communications Letters, 2014, 18, 1347-1350.	4.1	6
131	Gesture Recognition with Transparent Solar Cells. , 2018, , .		6
132	DynamicSLAM: Leveraging Human Anchors for Ubiquitous Low-Overhead Indoor Localization. IEEE Transactions on Mobile Computing, 2021, 20, 2563-2575.	5.8	6
133	Towards Quantum Computing for Location Tracking and Spatial Systems. , 2021, , .		6
134	Device-independent Quantum Fingerprinting for Large Scale Localization. , 2022, , .		6
135	Rover: An Integration and Fusion Platform to Enhance Situational Awareness. Performance, Computing and Communications Conference (IPCCC), IEEE International, 2007, , .	0.0	5
136	ARQ security in Wi-Fi and RFID networks. , 2010, , .		5
137	SANC: Source authentication using network coding. , 2011, , .		5
138	Practical provably secure key sharing for near field communication devices. , 2013, , .		5
139	Best relay selection for underlay cognitive radio systems with collision probability minimization. , 2014, , .		5
140	Censoring for Improved Sensing Performance in Infrastructure-Less Cognitive Radio Networks. , 2015, , .		5
141	Zephyr demo: Ubiquitous accurate multi-sensor fusion-based respiratory rate estimation using smartphones. , 2016, , .		5
142	Humaine: a ubiquitous smartphone-based user heading estimation for mobile computing systems. Geoinformatica, 2017, 21, 519-548.	2.7	5
143	Preliminary Investigation of Position Independent Gesture Recognition Using Wi-Fi CSI. , 2018, , .		5
144	Smartwatch-Based Face-Touch Prediction Using Deep Representational Learning. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 493-499.	0.3	5

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145	The IEEE 802.11 active probing analysis and enhancements. , 0, , .		4
146	Practical Provably Secure Communication for Half-Duplex Radios. , 2011, , .		4
147	G-DBAS: A green and deployable bandwidth aggregation system. , 2012, , .		4
148	Channel assignment with closeness multipath routing in cognitive networks. AEJ - Alexandria Engineering Journal, 2013, 52, 665-670.	6.4	4
149	A novel queue-length-based CSMA algorithm with improved delay characteristics. Computer Networks, 2017, 122, 56-69.	5.1	4
150	Ubiquitous Transportation Mode Detection Using Single Cell Tower Information. IEEE Sensors Journal, 2021, 21, 9250-9259.	4.7	4
151	Cross-Subject Activity Detection for COVID-19 Infection Avoidance Based on Automatically Annotated IMU Data. IEEE Sensors Journal, 2022, 22, 13125-13135.	4.7	4
152	Structure and performance evaluation of a replicated banyan network based ATM switch. , 0, , .		3
153	Implementation of a Scalable Context-Aware Computing System. Lecture Notes in Computer Science, 2003, , 364-374.	1.3	3
154	On the accuracy of multi-hop relative location estimation in wireless sensor networks. , 2007, , .		3
155	Towards evolving Sensor Actor NETWORKS. , 2008, , .		3
156	Randomization for Security in Half-Duplex Two-Way Gaussian Channels. , 2009, , .		3
157	Hidden Anchor: A Lightweight Approach for Physical Layer Location Privacy. Journal of Computer Systems, Networks, and Communications, 2010, 2010, 1-12.	1.2	3
158	SPOT demo. , 2012, , .		3
159	UVote: A Ubiquitous E-voting System. , 2012, , .		3
160	Stability analysis in a cognitive radio system with cooperative beamforming. , 2013, , .		3
161	A dynamic uplink scheduling scheme for WiMAX networks. , 2013, , .		3
162	Demonstrating CrowdInside: A system for the automatic construction of indoor floor-plans. , 2013, , .		3

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163	The Effect of Ground Truth Accuracy on the Evaluation of Localization Systems. , 2021, , .		3
164	OSCAR: A Deployable Adaptive Mobile Bandwidth Sharing and Aggregation System. , 2014, , .		3
165	Towards a Federated Network Architecture. , 2008, , .		2
166	Hidden Anchor: Providing Physical Layer Location Privacy in Hybrid Wireless Sensor Networks. , 2009, , .		2
167	On the flow anonymity problem in Network Coding. , 2013, , .		2
168	Location-aware probabilistic route discovery for cognitive radio networks. , 2014, , .		2
169	Enabling landmark-based accurate and robust next generation indoor LBSs. , 2018, , .		2
170	Trans-Sense: Real Time Transportation Schedule Estimation Using Smart Phones. , 2019, , .		2
171	Leveraging Earables for Natural Calibration-Free Multi-Device Identification in Smart Environments. , 2021, , .		2
172	Indoor Quality-of-position Visual Assessment Using Crowdsourced Fingerprint Maps. ACM Transactions on Spatial Algorithms and Systems, 2021, 7, 1-32.	1.4	2
173	Indoor Localization. , 2008, , 547-552.		2
174	Demonstrating practical provably secure multi-node communication. , 2012, , .		1
175	MobiCom 2011 poster. Mobile Computing and Communications Review, 2012, 15, 43-45.	1.7	1
176	Analysis of MSR routing protocol for WSNs. , 2012, , .		1
177	OPERETTA: Demonstrating an optimal energy efficient bandwidth aggregation system. , 2012, , .		1
178	CoSDEO 2013. , 2013, , .		1
179	v(t) CSMA. , 2013, , .		1
180	Primary User Aware k-Hop Routing for Cognitive Radio Networks. , 2014, , .		1

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181	Robust Low-Overhead RF-Based Localization for Realistic Environments. IEEE Transactions on Mobile Computing, 2022, 21, 2168-2179.	5.8	1
182	Guest Editorial: Mission critical networking. IEEE Journal on Selected Areas in Communications, 2010, 28, .	14.0	0
183	Enabling large scale flexible deployment of cognitive radio routing protocols. , 2012, , .		0
184	SensorChecker. , 2013, , .		0
185	Practical provably secure multi-node communication. , 2014, , .		0
186	Indoor Localization. , 2016, , 1-7.		0
187	Cost-Effective Data Transfer for Mobile Health Care. IEEE Systems Journal, 2017, 11, 2663-2674.	4.6	0
188	Guest editorial: mobile computing support for geospatial systems. Geoinformatica, 2018, 22, 71-73.	2.7	0
189	Better off This Way!: Ubiquitous Accessibility Digital Maps via Smartphone-based Crowdsourcing. , 2021, , .		0
190	POSTER IPS: A Ubiquitous Indoor Positioning System. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 228-232.	0.3	0
191	DEMO Classroom7: Please, Make Sure Your Phones Are Switched On!. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 243-247.	0.3	0
192	Indoor Localization. , 2017, , 1004-1010.		0