

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
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182427

51
g-index

196
all docs

196
docs citations

196
times ranked

5027
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Robust Low-Overhead RF-Based Localization for Realistic Environments. IEEE Transactions on Mobile Computing, 2022, 21, 2168-2179.	5.8	1
3	DeepFeat: Robust Large-Scale Multi-Features Outdoor Localization in LTE Networks Using Deep Learning. IEEE Access, 2022, 10, 3400-3414.	4.2	8
4	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
5	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
6	Device-independent Quantum Fingerprinting for Large Scale Localization. , 2022, , .		6
7	DynamicSLAM: Leveraging Human Anchors for Ubiquitous Low-Overhead Indoor Localization. IEEE Transactions on Mobile Computing, 2021, 20, 2563-2575.	5.8	6
8	Leveraging Earables for Natural Calibration-Free Multi-Device Identification in Smart Environments. , 2021, , .		2
9	Indoor Quality-of-position Visual Assessment Using Crowdsourced Fingerprint Maps. ACM Transactions on Spatial Algorithms and Systems, 2021, 7, 1-32.	1.4	2
10	Ubiquitous Transportation Mode Detection Using Single Cell Tower Information. IEEE Sensors Journal, 2021, 21, 9250-9259.	4.7	4
11	The Effect of Ground Truth Accuracy on the Evaluation of Localization Systems. , 2021, , .		3
12	Better off This Way!: Ubiquitous Accessibility Digital Maps via Smartphone-based Crowdsourcing. , 2021, , .		0
13	Accurate indoor positioning using IEEE 802.11mc round trip time. Pervasive and Mobile Computing, 2021, 75, 101416.	3.3	22
14	Device-independent cellular-based indoor location tracking using deep learning. Pervasive and Mobile Computing, 2021, 75, 101420.	3.3	24
15	Towards Quantum Computing for Location Tracking and Spatial Systems. , 2021, , .		6
16	Differential Channel-State-Information-Based Human Activity Recognition in IoT Networks. IEEE Internet of Things Journal, 2020, 7, 11290-11302.	8.7	25
17	The StoryTeller. , 2020, 4, 1-20.		18
18	A Ubiquitous and Accurate Floor Estimation System Using Deep Representational Learning. , 2020, , .		13

#	ARTICLE	IF	CITATIONS
19	Gain Without Pain. , 2020, , .		20
20	Deep Learning-based Floor Prediction Using Cell Network Information. , 2020, , .		12
21	CrossCount: A Deep Learning System for Device-Free Human Counting Using WiFi. IEEE Sensors Journal, 2019, 19, 9921-9928.	4.7	46
22	Transformative Computing and Communication. Computer, 2019, 52, 12-14.	1.1	10
23	WiDeep: WiFi-based Accurate and Robust Indoor Localization System using Deep Learning. , 2019, , .		169
24	SolarGest. , 2019, , .		45
25	Trans-Sense: Real Time Transportation Schedule Estimation Using Smart Phones. , 2019, , .		2
26	CrowdMeter: Gauging congestion level in railway stations using smartphones. Pervasive and Mobile Computing, 2019, 58, 101014.	3.3	8
27	Next Generation IoT: Toward Ubiquitous Autonomous Cost-Efficient IoT Devices. IEEE Pervasive Computing, 2019, 18, 8-11.	1.3	11
28	A Ubiquitous WiFi-Based Fine-Grained Gesture Recognition System. IEEE Transactions on Mobile Computing, 2019, 18, 2474-2487.	5.8	84
29	JustWalk: A Crowdsourcing Approach for the Automatic Construction of Indoor Floorplans. IEEE Transactions on Mobile Computing, 2019, 18, 2358-2371.	5.8	12
30	CellinDeep: Robust and Accurate Cellular-Based Indoor Localization via Deep Learning. IEEE Sensors Journal, 2019, 19, 2305-2312.	4.7	71
31	Primary User-Aware Optimal Discovery Routing for Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2019, 18, 193-206.	5.8	13
32	MonoDCell. , 2019, , .		33
33	SenseIO: Realistic Ubiquitous Indoor Outdoor Detection System Using Smartphones. IEEE Sensors Journal, 2018, 18, 3684-3693.	4.7	40
34	Cooperation-based multi-hop routing protocol for cognitive radio networks. Journal of Network and Computer Applications, 2018, 110, 27-42.	9.1	24
35	Guest editorial: mobile computing support for geospatial systems. Geoinformatica, 2018, 22, 71-73.	2.7	0
36	DeepLoc. , 2018, , .		53

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37	Zero-Calibration Device-Free Localization for the IoT Based on Participatory Sensing. , 2018, , .		9
38	Enabling landmark-based accurate and robust next generation indoor LBSs. , 2018, , .		2
39	Gesture Recognition with Transparent Solar Cells. , 2018, , .		6
40	TrueStory: Accurate and Robust RF-Based Floor Estimation for Challenging Indoor Environments. IEEE Sensors Journal, 2018, 18, 10115-10124.	4.7	37
41	Preliminary Investigation of Position Independent Gesture Recognition Using Wi-Fi CSI. , 2018, , .		5
42	HyRise. , 2018, 2, 1-23.		17
43	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
44	Cost-Effective Data Transfer for Mobile Health Care. IEEE Systems Journal, 2017, 11, 2663-2674.	4.6	0
45	A novel queue-length-based CSMA algorithm with improved delay characteristics. Computer Networks, 2017, 122, 56-69.	5.1	4
46	Humaine: a ubiquitous smartphone-based user heading estimation for mobile computing systems. Geoinformatica, 2017, 21, 519-548.	2.7	5
47	Automatic Rich Map Semantics Identification Through Smartphone-Based Crowd-Sensing. IEEE Transactions on Mobile Computing, 2017, 16, 2712-2725.	5.8	28
48	Over-The-Air TV Detection Using Mobile Devices. , 2017, , .		12
49	Accurate and Energy-Efficient GPS-Less Outdoor Localization. ACM Transactions on Spatial Algorithms and Systems, 2017, 3, 1-31.	1.4	37
50	A Fine-Grained Indoor Location-Based Social Network. IEEE Transactions on Mobile Computing, 2017, 16, 1203-1217.	5.8	17
51	Accurate Real-time Map Matching for Challenging Environments. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 847-857.	8.0	69
52	The Tale of Two Localization Technologies. , 2017, , .		23
53	Who Opened the Room? Device-Free Person Identification Using Bluetooth Signals in Door Access. , 2017, , .		10
54	Towards Ubiquitous Accessibility Digital Maps for Smart Cities. , 2017, , .		8

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55	Towards ubiquitous indoor spatial awareness on a worldwide scale. SIGSPATIAL Special, 2017, 9, 36-43.	2.7	11
56	Indoor Localization. , 2017, , 1004-1010.		0
57	CoSDEO 2016 Keynote: A decade later " Challenges: Device-free passive localization for wireless environments. , 2016, , .		8
58	TransitLabel. , 2016, , .		65
59	Zephyr demo: Ubiquitous accurate multi-sensor fusion-based respiratory rate estimation using smartphones. , 2016, , .		5
60	Zephyr: Ubiquitous accurate multi-sensor fusion-based respiratory rate estimation using smartphones. , 2016, , .		12
61	A Robust Zero-Calibration RF-Based Localization System for Realistic Environments. , 2016, , .		41
62	MagBoard: Magnetic-Based Ubiquitous Homomorphic Off-the-Shelf Keyboard. , 2016, , .		15
63	Indoor Localization. , 2016, , 1-7.		0
64	Robust and ubiquitous smartphone-based lane detection. Pervasive and Mobile Computing, 2016, 26, 35-56.	3.3	35
65	SemanticSLAM: Using Environment Landmarks for Unsupervised Indoor Localization. IEEE Transactions on Mobile Computing, 2016, 15, 1770-1782.	5.8	137
66	Hybrid participatory sensing for analyzing group dynamics in the largest annual religious gathering. , 2015, , .		24
67	semMatch. , 2015, , .		43
68	Activity recognition of railway passengers by fusion of low-power sensors in mobile phones. , 2015, , .		9
69	What Goes Around Comes Around: Mobile Bandwidth Sharing and Aggregation. , 2015, , .		10
70	A calibration-free RF localization system. , 2015, , .		7
71	Towards truly ubiquitous indoor localization on a worldwide scale. , 2015, , .		25
72	The Diversity and Scale Matter: Ubiquitous Transportation Mode Detection Using Single Cell Tower Information. , 2015, , .		11

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73	SemSense: Automatic construction of semantic indoor floorplans. , 2015, , .		26
74	WiGest demo: A ubiquitous WiFi-based gesture recognition system. , 2015, , .		55
75	ACE: An Accurate and Efficient Multi-Entity Device-Free WLAN Localization System. IEEE Transactions on Mobile Computing, 2015, 14, 261-273.	5.8	85
76	Bandwidth aggregation techniques in heterogeneous multi-homed devices: A survey. Computer Networks, 2015, 92, 168-188.	5.1	39
77	LaneQuest: An accurate and energy-efficient lane detection system. , 2015, , .		43
78	Toward dynamic real-time geo-location databases for TV white spaces. IEEE Network, 2015, 29, 76-82.	6.9	13
79	WiGest: A ubiquitous WiFi-based gesture recognition system. , 2015, , .		368
80	Censoring for Improved Sensing Performance in Infrastructure-Less Cognitive Radio Networks. , 2015, , .		5
81	UbiBreathe. , 2015, , .		180
82	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
83	Location-aware probabilistic route discovery for cognitive radio networks. , 2014, , .		2
84	Towards a characterization of white spaces databases errors. , 2014, , .		8
85	Demonstrating map++: A crowd-sensing system for automatic map semantics identification. , 2014, , .		8
86	Map++: A crowd-sensing system for automatic map semantics identification. , 2014, , .		20
87	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
88	Accurate and efficient map matching for challenging environments. , 2014, , .		25
89	Best relay selection for underlay cognitive radio systems with collision probability minimization. , 2014, , .		5
90	Optimal Network-Based Intervention in the Presence of Undetectable Viruses. IEEE Communications Letters, 2014, 18, 1347-1350.	4.1	6

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91	Routing Metrics of Cognitive Radio Networks: A Survey. IEEE Communications Surveys and Tutorials, 2014, 16, 92-109.	39.4	292
92	CheckInside. , 2014, , .		31
93	Practical provably secure multi-node communication. , 2014, , .		0
94	Primary User Aware k-Hop Routing for Cognitive Radio Networks. , 2014, , .		1
95	It's the Human that Matters: Accurate User Orientation Estimation for Mobile Computing Applications. , 2014, , .		50
96	OSCAR: A Deployable Adaptive Mobile Bandwidth Sharing and Aggregation System. , 2014, , .		3
97	Stability analysis in a cognitive radio system with cooperative beamforming. , 2013, , .		3
98	Channel assignment with closeness multipath routing in cognitive networks. AEJ - Alexandria Engineering Journal, 2013, 52, 665-670.	6.4	4
99	Achievable Secrecy Rate Regions for the Two-Way Wiretap Channel. IEEE Transactions on Information Theory, 2013, 59, 8099-8114.	2.4	30
100	An optimal deployable bandwidth aggregation system. Computer Networks, 2013, 57, 3067-3080.	5.1	15
101	A location-aided routing protocol for cognitive radio networks. , 2013, , .		43
102	On the flow anonymity problem in Network Coding. , 2013, , .		2
103	Dejavu. , 2013, , .		68
104	Enabling wide deployment of GSM localization over heterogeneous phones. , 2013, , .		24
105	GreenLoc: An energy efficient architecture for WiFi-based indoor localization on mobile phones. , 2013, , .		23
106	Nuzzer: A Large-Scale Device-Free Passive Localization System for Wireless Environments. IEEE Transactions on Mobile Computing, 2013, 12, 1321-1334.	5.8	278
107	Dead zone penetration protocol for cognitive radio networks. , 2013, , .		14
108	A dynamic uplink scheduling scheme for WiMAX networks. , 2013, , .		3

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109	New insights into wifi-based device-free localization. , 2013, , .		36
110	CoSDEO 2013. , 2013, , .		1
111	v(t) CSMA. , 2013, , .		1
112	SensorChecker. , 2013, , .		0
113	Demonstrating CrowdInside: A system for the automatic construction of indoor floor-plans. , 2013, , .		3
114	Practical provably secure key sharing for near field communication devices. , 2013, , .		5
115	MonoPHY: Mono-stream-based device-free WLAN localization via physical layer information. , 2013, , .		75
116	Opportunistic Secrecy with a Strict Delay Constraint. IEEE Transactions on Communications, 2013, 61, 4700-4709.	7.8	16
117	A low-cost large-scale framework for cognitive radio routing protocols testing. , 2013, , .		8
118	SPOT demo. , 2012, , .		3
119	Enabling large scale flexible deployment of cognitive radio routing protocols. , 2012, , .		0
120	Demonstrating practical provably secure multi-node communication. , 2012, , .		1
121	OPERETTA: An optimal energy efficient bandwidth aggregation system. , 2012, , .		9
122	No need to war-drive. , 2012, , .		640
123	Robust WLAN Device-free Passive motion detection. , 2012, , .		31
124	G-DBAS: A green and deployable bandwidth aggregation system. , 2012, , .		4
125	DBAS: A Deployable Bandwidth Aggregation System. , 2012, , .		7
126	Multi-entity device-free WLAN localization. , 2012, , .		20

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127	RASID: A robust WLAN device-free passive motion detection system. , 2012, , .		79
128	CrowdInside. , 2012, , .		178
129	MobiCom 2011 poster. Mobile Computing and Communications Review, 2012, 15, 43-45.	1.7	1
130	Analysis of MSR routing protocol for WSNs. , 2012, , .		1
131	RASID demo: A robust WLAN device-free passive motion detection system. , 2012, , .		16
132	OPERETTA: Demonstrating an optimal energy efficient bandwidth aggregation system. , 2012, , .		1
133	RF-Based Vehicle Detection and Speed Estimation. , 2012, , .		58
134	UVote: A Ubiquitous E-voting System. , 2012, , .		3
135	RF-Based Traffic Detection and Identification. , 2012, , .		23
136	UPTIME: Ubiquitous pedestrian tracking using mobile phones. , 2012, , .		144
137	CellSense: An Accurate Energy-Efficient GSM Positioning System. IEEE Transactions on Vehicular Technology, 2012, 61, 286-296.	6.3	153
138	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
139	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
140	SANC: Source authentication using network coding. , 2011, , .		5
141	Impact of the human motion on the variance of the received signal strength of wireless links. , 2011, , .		19
142	A Hidden Markov Model for Localization Using Low-End GSM Cell Phones. , 2011, , .		62
143	Kalman filter-based tracking of a device-free passive entity in wireless environments. , 2011, , .		12
144	Keys Through ARQ: Theory and Practice. IEEE Transactions on Information Forensics and Security, 2011, 6, 737-751.	6.9	36

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145	A new routing metric and protocol for multipath routing in cognitive networks. , 2011, , .		29
146	Synthetic Generation of Radio Maps for Device-Free Passive Localization. , 2011, , .		53
147	Practical Provably Secure Communication for Half-Duplex Radios. , 2011, , .		4
148	A source authentication scheme using network coding. International Journal of Security and Networks, 2011, 6, 101.	0.2	20
149	AROMA. , 2011, , .		17
150	Hidden Anchor: A Lightweight Approach for Physical Layer Location Privacy. Journal of Computer Systems, Networks, and Communications, 2010, 2010, 1-12.	1.2	3
151	New achievable secrecy rate regions for the two way wiretap channel. , 2010, , .		10
152	CellSense: A Probabilistic RSSI-Based GSM Positioning System. , 2010, , .		58
153	HyberLoc: Providing Physical Layer Location Privacy in Hybrid Sensor Networks. , 2010, , .		14
154	ARQ security in Wi-Fi and RFID networks. , 2010, , .		5
155	A deterministic large-scale device-free passive localization system for wireless environments. , 2010, , .		45
156	Propagation Modeling for Accurate Indoor WLAN RSS-Based Localization. , 2010, , .		69
157	GAC: Energy-Efficient Hybrid GPS-Accelerometer-Compass GSM Localization. , 2010, , .		80
158	Guest Editorial: Mission critical networking. IEEE Journal on Selected Areas in Communications, 2010, 28, .	14.0	0
159	DNIS. Mobile Computing and Communications Review, 2010, 14, 16-18.	1.7	7
160	ARQ secrecy: From theory to practice. , 2009, , .		13
161	On the delay limited secrecy capacity of fading channels. , 2009, , .		24
162	Randomization for Security in Half-Duplex Two-Way Gaussian Channels. , 2009, , .		3

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163	CellNet: A Bottom-Up Approach to Network Design. , 2009, , .		8
164	Analysis of a Device-Free Passive Tracking System in Typical Wireless Environments. , 2009, , .		41
165	Overlapping Multihop Clustering for Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 1844-1856.	5.6	130
166	Smart devices for smart environments: Device-free passive detection in real environments. , 2009, , .		132
167	Hidden Anchor: Providing Physical Layer Location Privacy in Hybrid Wireless Sensor Networks. , 2009, , .		2
168	Distributed Flooding-Based Storage Algorithms for Large-Scale Wireless Sensor Networks. , 2009, , .		13
169	The Horus location determination system. Wireless Networks, 2008, 14, 357-374.	3.0	295
170	Towards evolving Sensor Actor NETWORKS. , 2008, , .		3
171	Towards a Federated Network Architecture. , 2008, , .		2
172	Indoor Localization. , 2008, , 547-552.		2
173	On the accuracy of multi-hop relative location estimation in wireless sensor networks. , 2007, , .		3
174	Establishing overlapped multihop clusters in wireless sensor networks. International Journal of Sensor Networks, 2007, 2, 108.	0.4	8
175	Rover: An Integration and Fusion Platform to Enhance Situational Awareness. Performance, Computing and Communications Conference (IPCCC), IEEE International, 2007, , .	0.0	5
176	WSN16-5: Distributed Formation of Overlapping Multi-hop Clusters in Wireless Sensor Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	61
177	PinPoint. , 2006, , .		145
178	Multivariate analysis for probabilistic WLAN location determination systems. , 2005, , .		37
179	The Horus WLAN location determination system. , 2005, , .		1,157
180	Energy-aware management for cluster-based sensor networks. Computer Networks, 2003, 43, 649-668.	5.1	176

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181	Implementation of a Scalable Context-Aware Computing System. Lecture Notes in Computer Science, 2003, , 364-374.	1.3	3
182	Rover: scalable location-aware computing. Computer, 2002, 35, 46-53.	1.1	38
183	Structure and performance evaluation of a replicated banyan network based ATM switch. , 0, , .		3
184	Energy-aware routing in cluster-based sensor networks. , 0, , .		309
185	A constrained shortest-path energy-aware routing algorithm for wireless sensor networks. , 0, , .		80
186	Specification and analysis of the DCF and PCF protocols in the 802.11 standard using systems of communicating machines. , 0, , .		16
187	WLAN location determination via clustering and probability distributions. , 0, , .		554
188	Small-scale compensation for WLAN location determination systems. , 0, , .		66
189	Handling samples correlation in the Horus system. , 0, , .		112
190	Continuous space estimation for WLAN location determination systems. , 0, , .		24
191	The IEEE 802.11 active probing analysis and enhancements. , 0, , .		4
192	Efficient aggregation of delay-constrained data in wireless sensor networks. , 0, , .		29