Elena-Simona Lohan

List of Publications by Year
in descending order

194 papers	3,485 citations	249298 26 h-index	214428 50 g-index
198 all docs	198 docs citations	198 times ranked	2755 citing authors

#	Article	IF	Citations
1	A Comprehensive and Reproducible Comparison of Clustering and Optimization Rules in Wi-Fi Fingerprinting. IEEE Transactions on Mobile Computing, 2022, 21, 769-782.	3.9	26
2	On the High Fluctuations of Received Signal Strength Measurements With BLE Signals for Contact Tracing and Proximity Detection. IEEE Sensors Journal, 2022, 22, 5086-5100.	2.4	15
3	High-Accuracy Ranging and Localization With Ultrawideband Communications for Energy-Constrained Devices. IEEE Internet of Things Journal, 2022, 9, 7463-7480.	5.5	21
4	Performance Evaluation of Adaptive Tracking Techniques with Direct-State Kalman Filter. Sensors, 2022, 22, 420.	2.1	8
5	Perturbed-Location Mechanism for Increased User-Location Privacy in Proximity Detection and Digital Contact-Tracing Applications. Sensors, 2022, 22, 687.	2.1	5
6	Managing Perceived Loneliness and Social-Isolation Levels for Older Adults: A Survey with Focus on Wearables-Based Solutions. Sensors, 2022, 22, 1108.	2.1	8
7	Survey on Optimization Methods for LEO-Satellite-Based Networks with Applications in Future Autonomous Transportation. Sensors, 2022, 22, 1421.	2.1	12
8	Applications and Innovations on Sensor-Enabled Wearable Devices. Sensors, 2022, 22, 2599.	2.1	1
9	Is LEO-Based Positioning with Mega-Constellations the Answer for Future Equal Access Localization?. IEEE Communications Magazine, 2022, 60, 40-46.	4.9	8
10	Towards Accelerated Localization Performance Across Indoor Positioning Datasets. , 2022, , .		1
11	Low-Complexity Adaptive Direct-State Kalman Filter for Robust GNSS Carrier Tracking. , 2022, , .		3
12	A Machine-Learning-Based Analysis of the Relationships between Loneliness Metrics and Mobility Patterns for Elderly. Sensors, 2022, 22, 4946.	2.1	8
13	Convergent Communication, Sensing and Localization in 6G Systems: An Overview of Technologies, Opportunities and Challenges. IEEE Access, 2021, 9, 26902-26925.	2.6	224
14	Positioning in the Arctic Region: State-of-the-Art and Future Perspectives. IEEE Access, 2021, 9, 53964-53978.	2.6	13
15	Direct Lightweight Temporal Compression for Wearable Sensor Data. , 2021, 5, 1-4.		8
16	Effectiveness modelling of digital contact-tracing solutions for tackling the COVID-19 pandemic. Journal of Navigation, 2021, 74, 853-886.	1.0	18
17	A Comparative Study of 3D UE Positioning in 5G New Radio with a Single Station. Sensors, 2021, 21, 1178.	2.1	14
18	Collaborative Indoor Positioning Systems: A Systematic Review. Sensors, 2021, 21, 1002.	2.1	77

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19	A Survey of Spoofer Detection Techniques via Radio Frequency Fingerprinting with Focus on the GNSS Pre-Correlation Sampled Data. Sensors, 2021, 21, 3012.	2.1	9
20	Cooperative Positioning System for Industrial IoT via mmWave Device-to-Device Communications. , 2021, , .		3
21	When wearable technology meets computing in future networks. , 2021, , .		6
22	Measurements of LoRaWAN Technology in Urban Scenarios: A Data Descriptor. Data, 2021, 6, 62.	1.2	10
23	Adaptive Techniques in Scalar Tracking Loops with Direct-State Kalman-Filter. , 2021, , .		5
24	On Machine Learning Applicability to Transaction Time Prediction for Time-Critical C-ITS Applications. , 2021, , .		1
25	A Survey on Wearable Technology: History, State-of-the-Art and CurrentÂChallenges. Computer Networks, 2021, 193, 108074.	3.2	211
26	Comparison of MEO, LEO, and Terrestrial IoT Configurations in Terms of GDOP and Achievable Positioning Accuracies. IEEE Journal of Radio Frequency Identification, 2021, 5, 287-299.	1.5	9
27	Systematic Review on Machine-Learning Algorithms Used in Wearable-Based eHealth Data Analysis. IEEE Access, 2021, 9, 112221-112235.	2.6	21
28	Comparison of Machine Learning Techniques Applied to Traffic Prediction of Real Wireless Network. IEEE Access, 2021, 9, 159495-159514.	2.6	11
29	Understanding the Performance of Task Offloading for Wearables in a Two-Tier Edge Architecture. , 2021, , .		2
30	Older Adultsâ€™ Loneliness, Social Isolation, and Physical Information and Communication Technology in the Era of Ambient Assisted Living: A Systematic Literature Review. Journal of Medical Internet Research, 2021, 23, e28022.	2.1	44
31	Towards Ubiquitous Indoor Positioning: Comparing Systems across Heterogeneous Datasets. , 2021, , .		6
32	Self-Learning Detection and Mitigation of Non-Line-of-Sight Measurements in Ultra-Wideband Localization. , 2021, , .		3
33	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
34	Feasibility of Location-Aware Handover for Autonomous Vehicles in Industrial Multi-Radio Environments. Sensors, 2020, 20, 6290.	2.1	9
35	Modeling and Mitigating 5G Wireless Downlink Interferences for Low-altitude Aerial vehicles. , 2020, , .		1
36	Technical Perspectives of Contact-Tracing Applications on Wearables for COVID-19 Control. , 2020, , .		13

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37	Towards Energy Efficiency in the Internet of Wearable Things: A Systematic Review. IEEE Access, 2020, 8, 175412-175435.	2.6	52
38	HTC Vive as a Ground-Truth System for Anchor-Based Indoor Localization. , 2020, , .		6
39	RSS Fingerprinting Dataset Size Reduction Using Feature-Wise Adaptive k-Means Clustering. , 2020, , .		13
40	Collaborative Solutions for Interference Management in GNSS-Based Aircraft Navigation. Sensors, 2020, 20, 4085.	2.1	11
41	Improving DBSCAN for Indoor Positioning Using Wi-Fi Radio Maps in Wearable and IoT Devices. , 2020, , .		2
42	Applying Machine Learning to LTE Traffic Prediction: Comparison of Bagging, Random Forest, and SVM. , 2020, , .		18
43	Positioning-Aided 3D Beamforming for Enhanced Communications in mmWave Mobile Networks. IEEE Access, 2020, 8, 55513-55525.	2.6	16
44	Identifying GNSS Signals Based on Their Radio Frequency (RF) Featuresâ€"A Dataset with GNSS Raw Signals Based on Roof Antennas and Spectracom Generator. Data, 2020, 5, 18.	1.2	9
45	A Survey on Coping With Intentional Interference in Satellite Navigation for Manned and Unmanned Aircraft. IEEE Communications Surveys and Tutorials, 2020, 22, 249-291.	24.8	64
46	GDOP-based analysis of suitability of LEO constellations for future satellite-based positioning. , 2020, , .		19
47	In-lab validation of jammer detection and direction finding algorithms for GNSS. , 2019, , .		5
48	Location-Based Beamforming Architecture for Efficient Farming Applications with Drones. , 2019, , .		3
49	Comparative Analysis of Channel Models for Industrial IoT Wireless Communication. IEEE Access, 2019, 7, 91627-91640.	2.6	43
50	An Architecture for Indoor Location-Aided Services based on Collaborative Industrial Robotic Platforms. , 2019, , .		0
51	PILOT: Practical Privacy-Preserving Indoor Localization Using OuTsourcing. , 2019, , .		27
52	Centralized dynamics multiâ€frequency GNSS carrier synchronization. Navigation, Journal of the Institute of Navigation, 2019, 66, 485-504.	1.7	2
53	Positioning Information Privacy in Intelligent Transportation Systems: An Overview and Future Perspective. Sensors, 2019, 19, 1603.	2.1	8
54	Jammer Classification in GNSS Bands Via Machine Learning Algorithms. Sensors, 2019, 19, 4841.	2.1	37

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55	EKF-based and Geometry-based Positioning under Location Uncertainty of Access Nodes in Indoor Environment. , 2019, , .		8
56	Challenges of Fingerprinting in Indoor Positioning and Navigation. , 2019, , 1-20.		12
57	Challenges and Solutions in Received Signal Strength-Based Seamless Positioning. , 2019, , 249-285.		0
58	GNSS Navigation Threats Management on-Board of Aircraft. INCAS Bulletin, 2019, 11, 111-125.	0.3	6
59	Method and Analysis of Spectrally Compressed Radio Images for Mobile-Centric Indoor Localization. IEEE Transactions on Mobile Computing, 2018, 17, 845-858.	3.9	13
60	Characterising the Alteration in the AP Distribution with the RSS Distance and the Position Estimates. , 2018, , .		5
61	Benefits of Positioning-Aided Communication Technology in High-Frequency Industrial IoT. IEEE Communications Magazine, 2018, 56, 142-148.	4.9	36
62	Applicability of 3GPP Indoor Hotspot Models to the Industrial Environments. , 2018, , .		1
63	Dual-frequency signal processing architecture for robust and precise positioning applications. , 2018, , .		4
64	Mobile Geospatial Computing Systems for Ubiquitous Positioning. Mobile Information Systems, 2018, 2018, 1-2.	0.4	4
65	Long-Term WiFi Fingerprinting Dataset for Research on Robust Indoor Positioning. Data, 2018, 3, 3.	1.2	108
66	Opportunities and Challenges in the Industrial Internet of Things based on 5G Positioning. , 2018, , .		19
67	Joint Tracking of Multiple Frequency Signals from the same GNSS satellite. , 2018, , .		4
68	Wireless Positioning in IoT: A Look at Current and Future Trends. Sensors, 2018, 18, 2470.	2.1	43
69	Attack tolerance of RSS-based fingerprinting. , 2018, , .		3
70	Location Based Services Analysis Through Analytical Hierarchical Processes: An e-Health-Based Case Study. , 2017, , 283-301.		1
71	Robustness, Security and Privacy in Location-Based Services for Future IoT: A Survey. IEEE Access, 2017, 5, 8956-8977.	2.6	240
72	Indoor location based services challenges, requirements and usability of current solutions. Computer Science Review, 2017, 24, 1-12.	10.2	189

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75	User traces analysis based on crowdsourced data. , 2017, , .		1
76	Unambiguous Techniques Modernized GNSS Signals: Surveying the solutions. IEEE Signal Processing Magazine, 2017, 34, 38-52.	4.6	19
77	A comparison of Bayesian localization methods in the presence of outliers. , 2017, , .		1
78	Analysis of crowdsensed WiFi fingerprints for indoor localization. , 2017, , .		4
79	Wi-Fi Crowdsourced Fingerprinting Dataset for Indoor Positioning. Data, 2017, 2, 32.	1.2	107
80	Mapping the Radio World to Find Us. , 2017, , 149-164.		0
81	On the Choice of Access Point Selection Criterion and Other Position Estimation Characteristics for WLAN-Based Indoor Positioning. Sensors, 2016, 16, 737.	2.1	20
82	Robust Statistical Approaches for RSS-Based Floor Detection in Indoor Localization. Sensors, 2016, 16, 793.	2.1	8
83	Clustering benefits in mobile-centric WiFi positioning in multi-floor buildings. , 2016, , .		35
84	GNSS applications: Personal safety concerns. , 2016, , .		6
85	Multilag frequency estimation for high-order BOC signals in the acquisition stage. , 2016, , .		0
86	A survey of people movement analytics studies in the context of smart cities. , 2016, , .		10
87	Accuracy limits in multi-GNSS. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2477-2494.	2.6	15
88	Access Point topology evaluation and optimization based on CramÃ©r-Rao Lower Bound for WLAN indoor positioning. , 2016, , .		8
89	Data fusion approaches for WiFi fingerprinting. , 2016, , .		3
90	Array-based GNSS signal tracking with a reduced state signal model. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 1267-1283.	2.6	12

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91	Multi-GNSS analysis based on full constellations simulated data. , 2016, , .		2
92	Novel Indoor Positioning Mechanism Via Spectral Compression. IEEE Communications Letters, 2016, 20, 352-355.	2.5	15
93	Analysis of Real Mobility Records in Urban and Suburban Environments. Annals of DAAAM & Proceedings, 2016, , 0688-0692.	0.1	0
94	MULTI-POS: Marie Curie Network in Multi-technology Positioning. , 2016, , .		0
95	Acquisition of E5 Galileo Signals in Matlab. Procedia Engineering, 2015, 104, 36-42.	1.2	1
96	Investigations on mobility models and their impact on indoor positioning. , 2015, , .		2
97	Room-level indoor positioning with Wi-Fi and RFID fingerprints. , 2015, , .		4
98	On the impact of intra-system interference for ranging and positioning with Bluetooth low energy. , 2015, , .		3
99	Hybrid WLAN-RFID Indoor Localization Solution Utilizing Textile Tag. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1358-1361.	2.4	33
100	A Comparison of Received Signal Strength Statistics between 2.4 GHz and 5 GHz Bands for WLAN-Based Indoor Positioning. , 2015, , .		7
101	K-Means Fingerprint Clustering for Low-Complexity Floor Estimation in Indoor Mobile Localization. , 2015, , .		51
102	Distance-Based Interpolation and Extrapolation Methods for RSS-Based Localization With Indoor Wireless Signals. IEEE Transactions on Vehicular Technology, 2015, 64, 1340-1353.	3.9	139
103	Statistical sensor fusion of ultra wide band ranging and real time kinematic satellite navigation. , 2015, , .		3
104	Received signal strength models for WLAN and BLE-based indoor positioning in multi-floor buildings. , 2015, , .		41
105	Relaxed direct position estimation as strategy for open-loop GNSS receivers. , 2015, , .		1
106	Indoor positioning technology assessment using analytic hierarchy process for pedestrian navigation services. , 2015, , .		15
107	Are all the access points necessary in WLAN-based indoor positioning?. , 2015, , .		7
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110	Galileo Signals. Signals and Communication Technology, 2015, , 35-56.	0.4	0
111	Path-loss model of embroidered passive RFID tag on human body for indoor positioning applications. , 2014, , .		11
112	Overview of positioning technologies from fitness-to-purpose point of view. , 2014, , .		12
113	The effect of coverage gaps and measurement inaccuracies in fingerprinting based indoor localization. , 2014, , .		16
114	Cyclic Frequencies of BOC-Modulated GNSS Signals and Their Potential Within a Cognitive Positioning Framework. Navigation, Journal of the Institute of Navigation, 2014, 61, 95-114.	1.7	7
115	MULTI-POS - multi-technology positioning professionals training network. , 2014, , .		0
116	User perception on Location Based Services: The more you know, the less you are willing to pay?. , 2014, , .		1
117	Delay estimation for DVB-T signals in adverse multipath scenarios. , 2014, , .		1
118	Cyclostationarity-based spectrum sensing properties for signals of opportunity. , 2014, , .		1
119	Indoor localization via WLAN path-loss models and Dempster-Shafer combining. , 2014, , .		8
120	WLAN and RFID Propagation channels for hybrid indoor positioning. , 2014, , .		38
121	Electro-textile UHF RFID patch antennas for positioning and localization applications. , 2014, , .		12
122	Cyclostationary features of downsampled 802.11g OFDM signal for cognitive positioning systems. , 2014, , .		0
123	Effects of Radio Front-end PLL Phase Noise on GNSS Baseband Correlation. Navigation, Journal of the Institute of Navigation, 2014, 61, 13-21.	1.7	3
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126	A Fast Unambiguous Acquisition Algorithm for BOC-Modulated Signals. IEEE Transactions on Vehicular Technology, 2013, 62, 1350-1355.	3.9	34

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130	Analysis of multi-frequency receiver code tracking performance with flexible power-controlled front-end. , 2013, , .		0
131	On the fingerprints dynamics in WLAN indoor localization. , 2013, , .		13
132	Impact of Galileo commercial service on location-based service providers: business model analysis and policy implications. Journal of Location Based Services, 2013, 7, 67-78.	1.4	2
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134	CONTRIBUTIONS TO THE CHARACTERIZATION OF THE INDOOR GPS PROPAGATION CHANNEL. , 2013, , .		0
135	CONTRIBUTIONS TO THE FILTERING OF NARROWBAND INTERFERENCES IN GNSS. , 2013, , .		0
136	Designing roadmaps for the Galileo Commercial Service platform. , 2012, , .		0
137	Performance analysis of dual-frequency range estimation methods in the presence of ionospheric and multipath propagation effects. , 2012, , .		2
138	RSSI channel effects in cellular and WLAN positioning. , 2012, , .		10
139	Statistical path loss parameter estimation and positioning using RSS measurements in indoor wireless networks. , 2012, , .		32
140	Statistical path loss parameter estimation and positioning using RSS measurements. , 2012, , .		12
141	Timing-based location estimation for OFDM signals with application in LTE, WLAN and WIMAX. , 2012, , .		2
142	Access point significance measures in WLAN-based location. , 2012, , .		20
143	Galileo E1 and E5a Link-level Performance for Dual Frequency Overlay Structure. ICST Transactions on Ubiquitous Environments, 2012, 12, e3.	0.9	0
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146	Has the time to commercialize satellite navigation signals come?. , 2011, , .		0
147	User requirements in the context of future location based services as seen from a survey among Romanian students. , 2011, , .		1
148	Ionospheric delay corrections in multi-frequency receivers: Are three frequencies better than two?. , 2011, , .		2
149	Impact of narrowband interference on unambiguous acquisition approaches in Galileo. , 2011, , .		2
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151	Ionosphere-corrected range estimation in dual frequency global navigation satellite systems receivers. IET Radar, Sonar and Navigation, 2011, 5, 215.	0.9	3
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153	Performance of Deconvolution Methods in Estimating CBOC-Modulated Signals. International Journal of Navigation and Observation, 2011, 2011, 1-15.	0.8	1
154	Effect of Narrowband Interference on Galileo E1 Signal Receiver Performance. International Journal of Navigation and Observation, 2011, 2011, 1-10.	0.8	4
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156	Galileo Dual-Channel CBOC Receiver Processing under Limited Hardware Assumption. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 391-401.	0.2	1
157	Limited Bandwidths and Correlation Ambiguities: Do They Co-Exist in Galileo Receivers. Positioning, 2011, 02, 14-21.	0.1	5
158	Comparison of Single and Dual Frequency GNSS Receivers in the Presence of Ionospheric and Multipath Errors. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 402-410.	0.2	3
159	Advanced Multipath Mitigation Techniques for Satellite-Based Positioning Applications. International Journal of Navigation and Observation, 2010, 2010, 1-15.	0.8	37
160	Analytical performance of CBOC-modulated Galileo E1 signal using sine BOC(1,1) receiver for mass-market applications. , 2010, , .		13
161	A Slope-Based Multipath Estimation technique for mitigating short-delay multipath in GNSS receivers. , 2010, , .		12
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163	Pulse shaping investigation for the applicability of future GNSS signals in indoor environments. , 2010, , .		8
164	Multi-correlator structures for tracking Galileo signals with CBOC and SinBOC(1,1) reference receivers and limited front-end bandwidths. , 2010, , .		5
165	Estimators of the indoor channel for GPS-based pseudolite signal. , 2010, , .		2
166	Multipath mitigation performance of multi-correlator based code tracking algorithms in closed and open loop model. , 2009, , .		5
167	Optimal dual frequency combination for Galileo mass market receiver baseband. , 2009, , .		11
168	Low-complexity unambiguous acquisition methods for BOC-modulated CDMA signals. International Journal of Satellite Communications and Networking, 2008, 26, 503-522.	1.2	45
169	Multiple Gate Delay Tracking Structures for GNSS Signals and Their Evaluation with Simulink, SystemC, and VHDL. International Journal of Navigation and Observation, 2008, 2008, 1-17.	0.8	27
170	Discontinuity-Based Code Delay Estimator for GNSS Signals. , 2008, , .		2
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172	Peak Tracking Algorithm for Galileo-Based Positioning in Multipath Fading Channels. , 2007, , .		2
173	Efficient Delay Tracking Methods with Sidelobes Cancellation for BOC-Modulated Signals. Eurasip Journal on Wireless Communications and Networking, 2007, 2007, 1.	1.5	34
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177	GRANADA validation of optimized Multiple Gate Delay structures for Galileo SinBOC(1,1) signal tracking. , 2007, , .		2
178	Binary-offset-carrier modulation techniques with applications in satellite navigation systems. Wireless Communications and Mobile Computing, 2007, 7, 767-779.	0.8	61
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180	Feedforward Delay Estimators in Adverse Multipath Propagation for Galileo and Modernized GPS Signals. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	29

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184	Statistical Analysis of BPSK-Like Techniques for the Acquisition of Galileo Signals. Journal of Aerospace Computing, Information, and Communication, 2006, 3, 234-243.	0.8	23
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187	STATISTICAL PROPERTIES OF URBAN WCDMA CHANNEL FOR MOBILE POSITIONING APPLICATIONS. International Journal on Wireless and Optical Communications, 2004, 02, 145-161.	0.2	0
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190	A novel deconvolution approach for high accuracy LOS estimation in WCDMA environments. , 2003, , .		3
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192	Superresolution algorithms for detecting overlapped paths in DS-CDMA systems with long codes. , 0, , .		6
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194	Subcarrier Ambiguity Resolution Techniques for HOBOC Signals under Harsh Realistic Scenarios. , 0, , .		0