

Joaquin Torres-Sospedra

List of Publications by Citations

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117
papers

1,479
citations

23
h-index

35
g-index

146
ext. papers

2,110
ext. citations

2.5
avg, IF

5.01
L-index

#	Paper	IF	Citations
117	UJIIndoorLoc: A new multi-building and multi-floor database for WLAN fingerprint-based indoor localization problems 2014 ,		172
116	Comprehensive analysis of distance and similarity measures for Wi-Fi fingerprinting indoor positioning systems. <i>Expert Systems With Applications</i> , 2015 , 42, 9263-9278	7.8	128
115	A Meta-Review of Indoor Positioning Systems. <i>Sensors</i> , 2019 , 19,	3.8	73
114	Wi-Fi Crowdsourced Fingerprinting Dataset for Indoor Positioning. <i>Data</i> , 2017 , 2, 32	2.3	66
113	Long-Term WiFi Fingerprinting Dataset for Research on Robust Indoor Positioning. <i>Data</i> , 2018 , 3, 3	2.3	51
112	A Survey on Wearable Technology: History, State-of-the-Art and Current Challenges. <i>Computer Networks</i> , 2021 , 193, 108074	5.4	50
111	The Smartphone-Based Offline Indoor Location Competition at IPIN 2016: Analysis and Future Work. <i>Sensors</i> , 2017 , 17,	3.8	48
110	Comparing the Performance of Indoor Localization Systems through the EvAAL Framework. <i>Sensors</i> , 2017 , 17,	3.8	47
109	Enhancing integrated indoor/outdoor mobility in a smart campus. <i>International Journal of Geographical Information Science</i> , 2015 , 29, 1955-1968	4.1	44
108	Off-Line Evaluation of Mobile-Centric Indoor Positioning Systems: The Experiences from the 2017 IPIN Competition. <i>Sensors</i> , 2018 , 18,	3.8	37
107	Evaluating Indoor Positioning Systems in a Shopping Mall: The Lessons Learned From the IPIN 2018 Competition. <i>IEEE Access</i> , 2019 , 7, 148594-148628	3.5	35
106	An Indoor Positioning System Based on Wearables for Ambient-Assisted Living. <i>Sensors</i> , 2016 , 17,	3.8	35
105	Deployment of an open sensorized platform in a smart city context. <i>Future Generation Computer Systems</i> , 2017 , 76, 221-233	7.5	31
104	Leveraging electronic healthcare record standards and semantic web technologies for the identification of patient cohorts. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2013 , 20, e288-96	8.6	30
103	A realistic evaluation of indoor positioning systems based on Wi-Fi fingerprinting: The 2015 EvAALBTRI competition. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2017 , 9, 263-279	2.2	29
102	Evaluating indoor localization solutions in large environments through competitive benchmarking: The EvAAL-ETRI competition 2015 ,		29
101	Development of an open sensorized platform in a smart agriculture context: A vineyard support system for monitoring mildew disease. <i>Sustainable Computing: Informatics and Systems</i> , 2020 , 28, 100309 ³		27

100	SEnviro: a sensorized platform proposal using open hardware and open standards. <i>Sensors</i> , 2015 , 15, 5555-82	3.8	26
99	Providing Databases for Different Indoor Positioning Technologies: Pros and Cons of Magnetic Field and Wi-Fi Based Positioning. <i>Mobile Information Systems</i> , 2016 , 2016, 1-22	1.4	26
98	New Trends in Using Augmented Reality Apps for Smart City Contexts. <i>ISPRS International Journal of Geo-Information</i> , 2018 , 7, 478	2.9	26
97	Analysis of Sources of Large Positioning Errors in Deterministic Fingerprinting. <i>Sensors</i> , 2017 , 17,	3.8	25
96	UJIndoorLoc-Mag: A new database for magnetic field-based localization problems 2015 ,		25
95	Collaborative Indoor Positioning Systems: A Systematic Review. <i>Sensors</i> , 2021 , 21,	3.8	25
94	A radiosity-based method to avoid calibration for indoor positioning systems. <i>Expert Systems With Applications</i> , 2018 , 105, 89-101	7.8	23
93	BLE RSS Measurements Dataset for Research on Accurate Indoor Positioning. <i>Data</i> , 2019 , 4, 12	2.3	21
92	IndoorLoc platform: A public repository for comparing and evaluating indoor positioning systems 2017 ,		19
91	Two-stage procedure based on smoothed ensembles of neural networks applied to weed detection in orange groves. <i>Biosystems Engineering</i> , 2014 , 123, 40-55	4.8	18
90	The IPIN 2019 Indoor Localisation Competition Description and Results. <i>IEEE Access</i> , 2020 , 8, 206674-206738	3.8	15
89	Multiple simultaneous Wi-Fi measurements in fingerprinting indoor positioning 2017 ,		13
88	Multilayer Feedforward Ensembles for Classification Problems. <i>Lecture Notes in Computer Science</i> , 2004 , 744-749	0.9	13
87	Magnetic field based Indoor positioning using the Bag of Words paradigm 2016 ,		11
86	Team activity recognition in Association Football using a Bag-of-Words-based method. <i>Human Movement Science</i> , 2015 , 41, 165-78	2.4	11
85	A new HLA-based distributed control architecture for agricultural teams of robots in hybrid applications with real and simulated devices or environments. <i>Sensors</i> , 2011 , 11, 4385-400	3.8	11
84	Challenges of Fingerprinting in Indoor Positioning and Navigation 2019 , 1-20		11
83	Off-line Evaluation of Indoor Positioning Systems in Different Scenarios: The Experiences from IPIN 2020 Competition. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	11

82	A new approach to visual-based sensory system for navigation into orange groves. <i>Sensors</i> , 2011 , 11, 4086-103	3.8	9
81	New experiments on ensembles of multilayer feedforward for classification problems		9
80	Discovering location based services: A unified approach for heterogeneous indoor localization systems. <i>Internet of Things (Netherlands)</i> , 2021 , 13, 100334	6.9	9
79	A research on combination methods for ensembles of multilayer feedforward		8
78	Multi-Slot BLE Raw Database for Accurate Positioning in Mixed Indoor/Outdoor Environments. <i>Data</i> , 2020 , 5, 67	2.3	8
77	A Comprehensive and Reproducible Comparison of Clustering and Optimization Rules in Wi-Fi Fingerprinting. <i>IEEE Transactions on Mobile Computing</i> , 2020 , 1-1	4.6	8
76	Combining MF Networks: A Comparison Among Statistical Methods and Stacked Generalization. <i>Lecture Notes in Computer Science</i> , 2006 , 210-220	0.9	8
75	Ensembles of indoor positioning systems based on fingerprinting: Simplifying parameter selection and obtaining robust systems 2016 ,		7
74	Some Experiments with Ensembles of Neural Networks for Classification of Hyperspectral Images. <i>Lecture Notes in Computer Science</i> , 2004 , 912-917	0.9	6
73	New Cluster Selection and Fine-grained Search for k-Means Clustering and Wi-Fi Fingerprinting 2020 ,		6
72	Survey on Indoor Map Standards and Formats 2019 ,		6
71	An Occupancy Simulator for a Smart Parking System: Developmental Design and Experimental Considerations. <i>ISPRS International Journal of Geo-Information</i> , 2019 , 8, 212	2.9	5
70	A more realistic error distance calculation for indoor positioning systems accuracy evaluation 2017 ,		5
69	Environment-Aware Regression for Indoor Localization based on WiFi Fingerprinting. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	5
68	A Statistical Approach for Studying the Spatio-Temporal Distribution of Geolocated Tweets in Urban Environments. <i>Sustainability</i> , 2019 , 11, 595	3.6	4
67	Improving RF Fingerprinting Methods by Means of D2D Communication Protocol. <i>Electronics (Switzerland)</i> , 2019 , 8, 97	2.6	4
66	Smart Outdoor Light Desktop Central Management System. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2018 , 10, 58-68	2.6	4
65	How Feasible Is WiFi Fingerprint-Based Indoor Positioning for In-Home Monitoring? 2016 ,		4

64	Classification by Multilayer Feedforward Ensembles. <i>Lecture Notes in Computer Science</i> , 2004 , 852-857	0.9	4
63	2019 ,		4
62	. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	4
61	Analysis of Received Signal Strength Quantization in Fingerprinting Localization. <i>Sensors</i> , 2020 , 20,	3.8	3
60	A novel methodology to estimate a measurement of the inherent difficulty of an indoor localization radio map 2017 ,		3
59	Researching on combining boosting ensembles 2008 ,		3
58	Mixing Aveboost and Conserboost to Improve Boosting Methods. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007 ,		3
57	Some Experiments on Ensembles of Neural Networks for Hyperspectral Image Classification. <i>Lecture Notes in Computer Science</i> , 2004 , 677-684	0.9	3
56	Privacy in Indoor Positioning Systems: A Systematic Review 2020 ,		3
55	RSS Fingerprinting Dataset Size Reduction Using Feature-Wise Adaptive k-Means Clustering 2020 ,		3
54	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-11	5.2	3
53	Gradient Descent and Radial Basis Functions. <i>Lecture Notes in Computer Science</i> , 2006 , 391-396	0.9	3
52	Improving Adaptive Boosting with k-Cross-Fold Validation. <i>Lecture Notes in Computer Science</i> , 2006 , 397-402	0.9	3
51	In-home monitoring system based on WiFi fingerprints for ambient assisted living. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2017 , 9, 543-560	2.2	2
50	Designing a Multilayer Feedforward Ensemble with the Weighted Conservative Boosting Algorithm 2007 ,		2
49	2006 ,		2
48	A comparison of combination methods for ensembles of RBF networks		2
47	Designing a Multilayer Feedforward Ensembles with Cross Validated Boosting Algorithm 2006 ,		2

46	Ensembles of RBFs Trained by Gradient Descent. <i>Lecture Notes in Computer Science</i> , 2004 , 223-228	0.9	2
45	Ensembles of Multilayer Feedforward: Some New Results. <i>Lecture Notes in Computer Science</i> , 2005 , 604-614		2
44	Experiments on Ensembles of Radial Basis Functions. <i>Lecture Notes in Computer Science</i> , 2004 , 197-202	0.9	2
43	Averaged Conservative Boosting: Introducing a New Method to Build Ensembles of Neural Networks. <i>Lecture Notes in Computer Science</i> , 2007 , 309-318	0.9	2
42	Machine Learning applied to Wi-Fi fingerprinting: The experiences of the Ubiquim Challenge 2019 ,		2
41	Characterising the Alteration in the AP Distribution with the RSS Distance and the Position Estimates 2018 ,		2
40	A New Methodology for Long-Term Maintenance of WiFi Fingerprinting Radio Maps 2018 ,		2
39	2018 ,		2
38	Combining Satellite Images and Cadastral Information for Outdoor Autonomous Mapping and Navigation: A Proof-of-Concept Study in Citric Groves. <i>Algorithms</i> , 2019 , 12, 193	1.8	1
37	ATM-based analysis and recognition of handball team activities. <i>Neurocomputing</i> , 2015 , 150, 189-199	5.4	1
36	Situation Goodness Method for Weighted Centroid-Based Wi-Fi APs Localization. <i>Lecture Notes in Geoinformation and Cartography</i> , 2017 , 27-47	0.3	1
35	Assessment of Clinical Guideline Models Based on Metrics for Business Process Models. <i>Lecture Notes in Computer Science</i> , 2014 , 111-120	0.9	1
34	Training Radial Basis Functions by Gradient Descent. <i>Lecture Notes in Computer Science</i> , 2004 , 184-189	0.9	1
33	Hyperspectral image classification by ensembles of multilayer feedforward networks		1
32	Researching on Multi-net Systems Based on Stacked Generalization. <i>Lecture Notes in Computer Science</i> , 2008 , 193-204	0.9	1
31	New Results on Combination Methods for Boosting Ensembles. <i>Lecture Notes in Computer Science</i> , 2008 , 285-294	0.9	1
30	Some Experiments on Training Radial Basis Functions by Gradient Descent. <i>Lecture Notes in Computer Science</i> , 2004 , 428-433	0.9	1
29	First Experiments on Ensembles of Radial Basis Functions. <i>Lecture Notes in Computer Science</i> , 2004 , 253-262		1

28	New Results on Ensembles of Multilayer Feedforward. <i>Lecture Notes in Computer Science</i> , 2005 , 139-144	0.9	1
27	Improving the Combination Module with a Neural Network. <i>Lecture Notes in Computer Science</i> , 2006 , 146-155	0.9	1
26	The Mixture of Neural Networks Adapted to Multilayer Feedforward Architecture. <i>Lecture Notes in Computer Science</i> , 2006 , 488-493	0.9	1
25	Adaptive Boosting: Dividing the Learning Set to Increase the Diversity and Performance of the Ensemble. <i>Lecture Notes in Computer Science</i> , 2006 , 688-697	0.9	1
24	Locations Selection for Periodic Radio Map Update in WiFi Fingerprinting. <i>Lecture Notes in Geoinformation and Cartography</i> , 2018 , 3-24	0.3	1
23	Introducing Reordering Algorithms to Classic Well-Known Ensembles to Improve Their Performance. <i>Lecture Notes in Computer Science</i> , 2011 , 572-579	0.9	1
22	Lessons Learned in Generating Ground Truth for Indoor Positioning Systems Based on Wi-Fi Fingerprinting 2019 , 45-67		1
21	IndoorLoc Platform: A Web Tool to Support the Comparison of Indoor Positioning Systems 2019 , 225-247		1
20	TrackInFactory: A Tight Coupling Particle Filter for Industrial Vehicle Tracking in Indoor Environments. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-12	7.3	1
19	Training RBFs Networks: A Comparison Among Supervised and Not Supervised Algorithms. <i>Lecture Notes in Computer Science</i> , 2006 , 477-486	0.9	1
18	Cloud Platforms for Context-Adaptive Positioning and Localisation in GNSS-Denied Scenarios-A Systematic Review.. <i>Sensors</i> , 2021 , 22,	3.8	1
17	Gradient Descent Training of Radial Basis Functions. <i>Lecture Notes in Computer Science</i> , 2004 , 229-234	0.9	
16	Decision Fusion on Boosting Ensembles. <i>Lecture Notes in Computer Science</i> , 2008 , 157-167	0.9	
15	The Mixture of Neural Networks as Ensemble Combiner. <i>Lecture Notes in Computer Science</i> , 2008 , 168-179	0.9	
14	Improving Adaptive Boosting with a Relaxed Equation to Update the Sampling Distribution 2007 , 119-126		
13	Adding Diversity in Ensembles of Neural Networks by Reordering the Training Set. <i>Lecture Notes in Computer Science</i> , 2008 , 275-284	0.9	
12	Combination Methods for Ensembles of RBFs. <i>Lecture Notes in Computer Science</i> , 2005 , 121-126	0.9	
11	Combination Methods for Ensembles of MF. <i>Lecture Notes in Computer Science</i> , 2005 , 133-138	0.9	

10	An Experimental Study on Training Radial Basis Functions by Gradient Descent. <i>Lecture Notes in Computer Science</i> , 2006 , 81-92	0.9
9	Improving the Expert Networks of a Modular Multi-Net System for Pattern Recognition. <i>Lecture Notes in Computer Science</i> , 2006 , 293-302	0.9
8	Mixture of Neural Networks: Some Experiments with the Multilayer Feedforward Architecture. <i>Lecture Notes in Computer Science</i> , 2006 , 616-625	0.9
7	Stacking MF Networks to Combine the Outputs Provided by RBF Networks. <i>Lecture Notes in Computer Science</i> , 2007 , 450-459	0.9
6	Improving Boosting Methods by Generating Specific Training and Validation Sets. <i>Lecture Notes in Computer Science</i> , 2011 , 580-587	0.9
5	A Case Study on Agriture: Distributed HLA-Based Architecture for Agricultural Robotics. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 353-360	
4	Using Bagging and Cross-Validation to Improve Ensembles Based on Penalty Terms. <i>Lecture Notes in Computer Science</i> , 2011 , 588-595	0.9
3	Process Model Metrics for Quality Assessment of Computer-Interpretable Guidelines in PROforma. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2922	2.6
2	A Comparative Study in the Standardization of IoT Devices Using Geospatial Web Standards. <i>IEEE Sensors Journal</i> , 2021 , 21, 5512-5528	4
1	Guest Editorial Special Issue on Advanced Sensors and Sensing Technologies for Indoor Positioning and Navigation. <i>IEEE Sensors Journal</i> , 2022 , 22, 4754-4754	4