Joaqun Torres-Sospedra

List of Publications by Year in Descending Order

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	Guest Editorial Special Issue on Advanced Sensors and Sensing Technologies for Indoor Positioning and Navigation. *IEEE Sensors Journal*, **2022**, 22, 4754-4754	4	
116	Process Model Metrics for Quality Assessment of Computer-Interpretable Guidelines in PROforma. *Applied Sciences (Switzerland)*, **2021**, 11, 2922	2.6	
115	A Survey on Wearable Technology: History, State-of-the-Art and Current Challenges. *Computer Networks*, **2021**, 193, 108074	5.4	50
114	A Comparative Study in the Standardization of IoT Devices Using Geospatial Web Standards. *IEEE Sensors Journal*, **2021**, 21, 5512-5528	4	
113	Discovering location based services: A unified approach for heterogeneous indoor localization systems. *Internet of Things (Netherlands)*, **2021**, 13, 100334	6.9	9
112	. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-11	5.2	3
111	TrackInFactory: A Tight Coupling Particle Filter for Industrial Vehicle Tracking in Indoor Environments. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-12	7.3	1
110	Environment-Aware Regression for Indoor Localization based on WiFi Fingerprinting. *IEEE Sensors Journal*, **2021**, 1-1	4	5
109	. *IEEE Sensors Journal*, **2021**, 1-1	4	4
108	Collaborative Indoor Positioning Systems: A Systematic Review. *Sensors*, **2021**, 21,	3.8	25
107	Off-line Evaluation of Indoor Positioning Systems in Different Scenarios: The Experiences from IPIN 2020 Competition. *IEEE Sensors Journal*, **2021**, 1-1	4	11
106	Cloud Platforms for Context-Adaptive Positioning and Localisation in GNSS-Denied Scenarios-A Systematic Review.. *Sensors*, **2021**, 22,	3.8	1
105	Analysis of Received Signal Strength Quantization in Fingerprinting Localization. *Sensors*, **2020**, 20,	3.8	3
104	New Cluster Selection and Fine-grained Search for k-Means Clustering and Wi-Fi Fingerprinting **2020**,		6
103	Privacy in Indoor Positioning Systems: A Systematic Review **2020**,		3
102	RSS Fingerprinting Dataset Size Reduction Using Feature-Wise Adaptive k-Means Clustering **2020**,		3
101	Multi-Slot BLE Raw Database for Accurate Positioning in Mixed Indoor/Outdoor Environments. *Data*, **2020**, 5, 67	2.3	8

100	A Comprehensive and Reproducible Comparison of Clustering and Optimization Rules in Wi-Fi Fingerprinting. *IEEE Transactions on Mobile Computing*, **2020**, 1-1	4.6	8
99	The IPIN 2019 Indoor Localisation Competition: Description and Results. *IEEE Access*, **2020**, 8, 206674-206718	3.5	15
98	Development of an open sensorized platform in a smart agriculture context: A vineyard support system for monitoring mildew disease. *Sustainable Computing: Informatics and Systems*, **2020**, 28, 100309	3	27
97	Combining Satellite Images and Cadastral Information for Outdoor Autonomous Mapping and Navigation: A Proof-of-Concept Study in Citric Groves. *Algorithms*, **2019**, 12, 193	1.8	1
96	An Occupancy Simulator for a Smart Parking System: Developmental Design and Experimental Considerations. *ISPRS International Journal of Geo-Information*, **2019**, 8, 212	2.9	5
95	A Statistical Approach for Studying the Spatio-Temporal Distribution of Geolocated Tweets in Urban Environments. *Sustainability*, **2019**, 11, 595	3.6	4
94	Improving RF Fingerprinting Methods by Means of D2D Communication Protocol. *Electronics (Switzerland)*, **2019**, 8, 97	2.6	4
93	A Meta-Review of Indoor Positioning Systems. *Sensors*, **2019**, 19,	3.8	73
92	Evaluating Indoor Positioning Systems in a Shopping Mall: The Lessons Learned From the IPIN 2018 Competition. *IEEE Access*, **2019**, 7, 148594-148628	3.5	35
91	BLE RSS Measurements Dataset for Research on Accurate Indoor Positioning. *Data*, **2019**, 4, 12	2.3	21
90	Machine Learning applied to Wi-Fi fingerprinting: The experiences of the Ubiqum Challenge **2019**,		2
89	Survey on Indoor Map Standards and Formats **2019**,		6
88	**2019**,		4
87	Challenges of Fingerprinting in Indoor Positioning and Navigation **2019**, 1-20		11
86	Lessons Learned in Generating Ground Truth for Indoor Positioning Systems Based on Wi-Fi Fingerprinting **2019**, 45-67		1
85	IndoorLoc Platform: A Web Tool to Support the Comparison of Indoor Positioning Systems **2019**, 225-247		1
84	A radiosity-based method to avoid calibration for indoor positioning systems. *Expert Systems With Applications*, **2018**, 105, 89-101	7.8	23
83	Smart Outdoor Light Desktop Central Management System. *IEEE Intelligent Transportation Systems Magazine*, **2018**, 10, 58-68	2.6	4

82	Long-Term WiFi Fingerprinting Dataset for Research on Robust Indoor Positioning. *Data*, **2018**, 3, 3	2.3	51
81	Off-Line Evaluation of Mobile-Centric Indoor Positioning Systems: The Experiences from the 2017 IPIN Competition. *Sensors*, **2018**, 18,	3.8	37
80	Locations Selection for Periodic Radio Map Update in WiFi Fingerprinting. *Lecture Notes in Geoinformation and Cartography*, **2018**, 3-24	0.3	1
79	New Trends in Using Augmented Reality Apps for Smart City Contexts. *ISPRS International Journal of Geo-Information*, **2018**, 7, 478	2.9	26
78	Characterising the Alteration in the AP Distribution with the RSS Distance and the Position Estimates **2018**,		2
77	A New Methodology for Long-Term Maintenance of WiFi Fingerprinting Radio Maps **2018**,		2
76	**2018**,		2
75	A realistic evaluation of indoor positioning systems based on Wi-Fi fingerprinting: The 2015 EvAAL-ETRI competition. *Journal of Ambient Intelligence and Smart Environments*, **2017**, 9, 263-279	2.2	29
74	Analysis of Sources of Large Positioning Errors in Deterministic Fingerprinting. *Sensors*, **2017**, 17,	3.8	25
73	In-home monitoring system based on WiFi fingerprints for ambient assisted living. *Journal of Ambient Intelligence and Smart Environments*, **2017**, 9, 543-560	2.2	2
72	Situation Goodness Method for Weighted Centroid-Based Wi-Fi APs Localization. *Lecture Notes in Geoinformation and Cartography*, **2017**, 27-47	0.3	1
71	Deployment of an open sensorized platform in a smart city context. *Future Generation Computer Systems*, **2017**, 76, 221-233	7.5	31
70	A more realistic error distance calculation for indoor positioning systems accuracy evaluation **2017**,		5
69	Multiple simultaneous Wi-Fi measurements in fingerprinting indoor positioning **2017**,		13
68	A novel methodology to estimate a measurement of the inherent difficulty of an indoor localization radio map **2017**,		3
67	IndoorLoc platform: A public repository for comparing and evaluating indoor positioning systems **2017**,		19
66	The Smartphone-Based Offline Indoor Location Competition at IPIN 2016: Analysis and Future Work. *Sensors*, **2017**, 17,	3.8	48
65	Comparing the Performance of Indoor Localization Systems through the EvAAL Framework. *Sensors* , **2017**, 17,	3.8	47

64	Wi-Fi Crowdsourced Fingerprinting Dataset for Indoor Positioning. *Data*, **2017**, 2, 32	2.3	66
63	Magnetic field based Indoor positioning using the Bag of Words paradigm **2016**,		11
62	Ensembles of indoor positioning systems based on fingerprinting: Simplifying parameter selection and obtaining robust systems **2016**,		7
61	How Feasible Is WiFi Fingerprint-Based Indoor Positioning for In-Home Monitoring? **2016**,		4
60	An Indoor Positioning System Based on Wearables for Ambient-Assisted Living. *Sensors*, **2016**, 17,	3.8	35
59	Providing Databases for Different Indoor Positioning Technologies: Pros and Cons of Magnetic Field and Wi-Fi Based Positioning. *Mobile Information Systems*, **2016**, 2016, 1-22	1.4	26
58	SEnviro: a sensorized platform proposal using open hardware and open standards. *Sensors*, **2015**, 15, 5555-82	3.8	26
57	Comprehensive analysis of distance and similarity measures for Wi-Fi fingerprinting indoor positioning systems. *Expert Systems With Applications*, **2015**, 42, 9263-9278	7.8	128
56	ATM-based analysis and recognition of handball team activities. *Neurocomputing*, **2015**, 150, 189-199	5.4	1
55	Evaluating indoor localization solutions in large environments through competitive benchmarking: The EvAAL-ETRI competition **2015**,		29
54	Enhancing integrated indoor/outdoor mobility in a smart campus. *International Journal of Geographical Information Science*, **2015**, 29, 1955-1968	4.1	44
53	Team activity recognition in Association Football using a Bag-of-Words-based method. *Human Movement Science*, **2015**, 41, 165-78	2.4	11
52	UJIIndoorLoc-Mag: A new database for magnetic field-based localization problems **2015**,		25
51	Two-stage procedure based on smoothed ensembles of neural networks applied to weed detection in orange groves. *Biosystems Engineering*, **2014**, 123, 40-55	4.8	18
50	Assessment of Clinical Guideline Models Based on Metrics for Business Process Models. *Lecture Notes in Computer Science*, **2014**, 111-120	0.9	1
49	UJIIndoorLoc: A new multi-building and multi-floor database for WLAN fingerprint-based indoor localization problems **2014**,		172
48	Leveraging electronic healthcare record standards and semantic web technologies for the identification of patient cohorts. *Journal of the American Medical Informatics Association: JAMIA*, **2013**, 20, e288-96	8.6	30
47	A new approach to visual-based sensory system for navigation into orange groves. *Sensors*, **2011**, 11, 4086-103	3.8	9

46	A new HLA-based distributed control architecture for agricultural teams of robots in hybrid applications with real and simulated devices or environments. *Sensors*, **2011**, 11, 4385-400	3.8	11
45	Introducing Reordering Algorithms to Classic Well-Known Ensembles to Improve Their Performance. *Lecture Notes in Computer Science*, **2011**, 572-579	0.9	1
44	Improving Boosting Methods by Generating Specific Training and Validation Sets. *Lecture Notes in Computer Science*, **2011**, 580-587	0.9	
43	A Case Study on Agriture: Distributed HLA-Based Architecture for Agricultural Robotics. *Advances in Intelligent and Soft Computing*, **2011**, 353-360		
42	Using Bagging and Cross-Validation to Improve Ensembles Based on Penalty Terms. *Lecture Notes in Computer Science*, **2011**, 588-595	0.9	
41	Researching on combining boosting ensembles **2008**,		3
40	Decision Fusion on Boosting Ensembles. *Lecture Notes in Computer Science*, **2008**, 157-167	0.9	
39	The Mixture of Neural Networks as Ensemble Combiner. *Lecture Notes in Computer Science*, **2008**, 168-179	0.9	
38	Researching on Multi-net Systems Based on Stacked Generalization. *Lecture Notes in Computer Science*, **2008**, 193-204	0.9	1
37	Adding Diversity in Ensembles of Neural Networks by Reordering the Training Set. *Lecture Notes in Computer Science*, **2008**, 275-284	0.9	
36	New Results on Combination Methods for Boosting Ensembles. *Lecture Notes in Computer Science*, **2008**, 285-294	0.9	1
35	Designing a Multilayer Feedforward Ensemble with the Weighted Conservative Boosting Algorithm **2007**,		2
34	Mixing Aveboost and Conserboost to Improve Boosting Methods. *Neural Networks (IJCNN), International Joint Conference on*, **2007**,		3
33	Improving Adaptive Boosting with a Relaxed Equation to Update the Sampling Distribution **2007**, 119-126		
32	Stacking MF Networks to Combine the Outputs Provided by RBF Networks. *Lecture Notes in Computer Science*, **2007**, 450-459	0.9	
31	Averaged Conservative Boosting: Introducing a New Method to Build Ensembles of Neural Networks. *Lecture Notes in Computer Science*, **2007**, 309-318	0.9	2
30	**2006**,		2
29	Designing a Multilayer Feedforward Ensembles with Cross Validated Boosting Algorithm **2006**,		2

28	Improving the Combination Module with a Neural Network. *Lecture Notes in Computer Science*, **2006**, 146-155	0.9	1
27	The Mixture of Neural Networks Adapted to Multilayer Feedforward Architecture. *Lecture Notes in Computer Science*, **2006**, 488-493	0.9	1
26	An Experimental Study on Training Radial Basis Functions by Gradient Descent. *Lecture Notes in Computer Science*, **2006**, 81-92	0.9	
25	Improving the Expert Networks of a Modular Multi-Net System for Pattern Recognition. *Lecture Notes in Computer Science*, **2006**, 293-302	0.9	
24	Mixture of Neural Networks: Some Experiments with the Multilayer Feedforward Architecture. *Lecture Notes in Computer Science*, **2006**, 616-625	0.9	
23	Adaptive Boosting: Dividing the Learning Set to Increase the Diversity and Performance of the Ensemble. *Lecture Notes in Computer Science*, **2006**, 688-697	0.9	1
22	Gradient Descent and Radial Basis Functions. *Lecture Notes in Computer Science*, **2006**, 391-396	0.9	3
21	Improving Adaptive Boosting with k-Cross-Fold Validation. *Lecture Notes in Computer Science*, **2006**, 397-402	0.9	3
20	Combining MF Networks: A Comparison Among Statistical Methods and Stacked Generalization. *Lecture Notes in Computer Science*, **2006**, 210-220	0.9	8
19	Training RBFs Networks: A Comparison Among Supervised and Not Supervised Algorithms. *Lecture Notes in Computer Science*, **2006**, 477-486	0.9	1
18	Ensembles of Multilayer Feedforward: Some New Results. *Lecture Notes in Computer Science*, **2005**, 604-611	0.9	2
17	New Results on Ensembles of Multilayer Feedforward. *Lecture Notes in Computer Science*, **2005**, 139-144	0.9	1
16	Combination Methods for Ensembles of RBFs. *Lecture Notes in Computer Science*, **2005**, 121-126	0.9	
15	Combination Methods for Ensembles of MF. *Lecture Notes in Computer Science*, **2005**, 133-138	0.9	
14	Some Experiments on Ensembles of Neural Networks for Hyperspectral Image Classification. *Lecture Notes in Computer Science*, **2004**, 677-684	0.9	3
13	Training Radial Basis Functions by Gradient Descent. *Lecture Notes in Computer Science*, **2004**, 184-189	0.9	1
12	Ensembles of RBFs Trained by Gradient Descent. *Lecture Notes in Computer Science*, **2004**, 223-228	0.9	2
11	Gradient Descent Training of Radial Basis Functions. *Lecture Notes in Computer Science*, **2004**, 229-234	0.9	

10	Some Experiments with Ensembles of Neural Networks for Classification of Hyperspectral Images. *Lecture Notes in Computer Science*, **2004**, 912-917	0.9	6
9	Multilayer Feedforward Ensembles for Classification Problems. *Lecture Notes in Computer Science*, **2004**, 744-749	0.9	13
8	Some Experiments on Training Radial Basis Functions by Gradient Descent. *Lecture Notes in Computer Science*, **2004**, 428-433	0.9	1
7	First Experiments on Ensembles of Radial Basis Functions. *Lecture Notes in Computer Science*, **2004**, 253-262	0.9	1
6	Experiments on Ensembles of Radial Basis Functions. *Lecture Notes in Computer Science*, **2004**, 197-202	0.9	2
5	Classification by Multilayer Feedforward Ensembles. *Lecture Notes in Computer Science*, **2004**, 852-857	0.9	4
4	A comparison of combination methods for ensembles of RBF networks		2
3	Hyperspectral image classification by ensembles of multilayer feedforward networks		1
2	New experiments on ensembles of multilayer feedforward for classification problems		9
1	A research on combination methods for ensembles of multilayer feedforward		8