Guenther Retscher

List of Publications by Year
in descending order

53 papers	583 citations	687363 13 h-index	713466 21 g-index
54 all docs	54 docs citations	54 times ranked	606 citing authors

#	Article	IF	Citations
1	Location determination using WiFi fingerprinting versus WiFi trilateration. Journal of Location Based Services, 2007, 1, 145-159.	1.9	91
2	Ubiquitous Positioning Technologies for Modern Intelligent Navigation Systems. Journal of Navigation, 2006, 59, 91-103.	1.7	42
3	Active RFID Trilateration and Location Fingerprinting Based on RSSI for Pedestrian Navigation. Journal of Navigation, 2009, 62, 323-340.	1.7	41
4	A new method for improving Wi-Fi-based indoor positioning accuracy. Journal of Location Based Services, 2014, 8, 135-147.	1.9	28
5	Cooperative Localization of Unmanned Aerial Vehicles Using GNSS, MEMS Inertial, and UWB Sensors. Journal of Surveying Engineering, - ASCE, 2017, 143, .	1.7	20
6	Continuous indoor navigation with RFID and INS. , 2010, , .		19
7	Initial test on the use of GPS and sensor data of modern smartphones for vehicle tracking in dense high rise environments. , 2012, , .		19
8	Experimental Evaluation of a UWB-Based Cooperative Positioning System for Pedestrians in GNSS-Denied Environment. Sensors, 2019, 19, 5274.	3.8	19
9	Collaborative Navigation as a Solution for PNT Applications in GNSS Challenged Environments â€" Report on Field Trials of a Joint FIGâ€†/â€†IAG Working Group. Journal of Applied Geodesy, 2015, 9, .	1.1	18
10	Performance and accuracy test of a WiFi indoor positioning system. Journal of Applied Geodesy, 2007, 1, .	1.1	17
11	Range validation of UWB and Wi-Fi for integrated indoor positioning. Applied Geomatics, 2019, 11, 187-195.	2.5	17
12	Experimental Assessment of UWB and Vision-Based Car Cooperative Positioning System. Remote Sensing, 2021, 13, 4858.	4.0	15
13	High-Dimensional Probabilistic Fingerprinting in Wireless Sensor Networks Based on a Multivariate Gaussian Mixture Model. Sensors, 2018, 18, 2602.	3.8	14
14	Fundamental Concepts and Evolution of Wi-Fi User Localization: An Overview Based on Different Case Studies. Sensors, 2020, 20, 5121.	3.8	14
15	Intelligent location models for next generation location-based services. Journal of Location Based Services, 2007, 1, 237-255.	1.9	13
16	Collaborative navigation with ground vehicles and personal navigators. , 2012, , .		13
17	Development of a Smartphone-Based University Library Navigation and Information Service Employing Wi-Fi Location Fingerprinting. Sensors, 2021, 21, 432.	3.8	13
18	Investigation of location capabilities of four different smartphones for LBS navigation applications. , 2012, , .		12

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19	Wi-Fi location fingerprinting using an intelligent checkpoint sequence. Journal of Applied Geodesy, 2017, 11, .	1.1	12
20	RFID Positioning. , 0, , 69-95.		12
21	A case study on the feasibility and performance of an UWB-AoA real time location system for resources management of civil construction projects. Journal of Applied Geodesy, 2010, 4, .	1.1	11
22	Indoor positioning using differential Wi-Fi lateration. Journal of Applied Geodesy, 2017, 11, .	1.1	11
23	Seamless navigation using GNSS and Wi-Fi/IN with intelligent checkpoints. Journal of Location Based Services, 2017, 11, 204-221.	1.9	11
24	Evaluating the performance of low cost MEMS inertial sensors for seamless indoor/outdoor navigation. , 2010, , .		10
25	A benchmarking measurement campaign in GNSS-denied/challenged indoor/outdoor and transitional environments. Journal of Applied Geodesy, 2020, 14, 215-229.	1.1	10
26	SENSOR FUSION AND INTEGRATION USING AN ADAPTED KALMAN FILTER APPROACH FOR MODERN NAVIGATION SYSTEMS. Survey Review, 2004, 37, 439-447.	1.2	8
27	A low-cost wireless sensors positioning solution for indoor parking facilities management. Journal of Location Based Services, 2016, 10, 241-261.	1.9	8
28	Cooperative Localization in Indoor Environments Using Constrained Differential Wi-Fi and UWB Measurements. , 0, , .		7
29	Indoor Navigation. , 2016, , 1-7.		6
30	Indoor positioning using Wi-Fi lateration â€" Comparison of two common range conversion models with two novel differential approaches. , 2016, , .		5
31	Editorial to the Special Edition on Deformation Monitoring. Journal of Applied Geodesy, 2016, 10, 1-3.	1.1	5
32	Trilateration Approaches for Indoor Wi-Fi Positioning. E3S Web of Conferences, 2019, 94, 02002.	0.5	5
33	Influential factors for decimetre level positioning using ultra wide band technology. Survey Review, 2012, 44, 37-44.	1.2	4
34	A new approach for indoor customer tracking based on a single Wi-Fi connection. , 2014, , .		4
35	Indoor navigation and tracking. Physical Communication, 2014, 13, 1-3.	2.1	4
36	Preface to the special issue on multi-sensor systems in engineering geodesy and navigation. Journal of Applied Geodesy, 2012, 6, 1-2.	1.1	3

#	Article	IF	Citations
37	A new algorithm for improving the tracking and positioning of cell of origin. , 2015, , .		3
38	InKoPoMoVer â€" Cooperative Positioning for Real-time User Assistance and Guidance at Multi-modal Public Transit Junctions. Journal of Applied Geodesy, 2015, 9, .	1.1	2
39	Full-scale testing and performance evaluation of an active RFID system for positioning and personal mobility. , 2016, , .		2
40	Combined Wi-Fi and Inertial Navigation with Smart Phones in Out- and Indoor Environments. , 2017, , .		2
41	Trilateration approaches for seamless out-/indoor GNSS and Wi-Fi smartphone positioning. Journal of Applied Geodesy, 2019, 13, 47-61.	1.1	2
42	Urban Wi-Fi Fingerprinting for Routing of Multi-modal Transport Users. , 0, , .		2
43	A Benchmarking Measurement Campaign to Support Ubiquitous Localization in GNSS Denied and Indoor Environments. International Association of Geodesy Symposia, 2020, , 1.	0.4	1
44	Geodetic Sensor Systems and Sensor Networks: Positioning and Applications. International Association of Geodesy Symposia, 2012, , 47-51.	0.4	1
45	Urban Wi-Fi fingerprinting along a public transport route. Journal of Applied Geodesy, 2020, 14, 379-392.	1.1	1
46	A KNOWLEDGE-BASED KALMAN FILTER FOR AN INTELLIGENT PEDESTRIAN NAVIGATION SYSTEM. Survey Review, 2007, 39, 282-293.	1.2	0
47	Preface to the Special Edition of the JAG on Ubiquitous Positioning and Navigation Systems. Journal of Applied Geodesy, 2013, 7, .	1.1	0
48	Editorial to the Special Edition of the JAG on Engineering Geodesy. Journal of Applied Geodesy, 2014, 8, .	1.1	0
49	Ubiquitous User Localization in LBS â€" The Need for Implementing Ethical Thinking in Our Research Field. Journal of Applied Geodesy, 2015, 9, .	1.1	0
50	A self-learning fingerprinting matching algorithm for indoor Wi-Fi positioning. , 2018, , .		0
51	Robust Positioning Performance in Indoor Environments. E3S Web of Conferences, 2019, 94, 02001.	0.5	0
52	Navigation Based on Sensors in Smartphones. Advances in Wireless Technologies and Telecommunication Book Series, 2018, , 368-396.	0.4	0
53	PBeLâ€"A Novel Problem-Based (e-)Learning for Geomatics Students. Geomatics, 2022, 2, 76-106.	1.9	0