Sandra Verhagen

List of Publications by Year
in descending order

51 papers	1,298 citations	361413 20 h-index	361022 35 g-index
51 all docs	51 docs citations	51 times ranked	566 citing authors

#	Article	IF	Citations
1	The ratio test for future GNSS ambiguity resolution. GPS Solutions, 2013, 17, 535-548.	4.3	173
2	New Global Navigation Satellite System Ambiguity Resolution Method Compared to Existing Approaches. Journal of Guidance, Control, and Dynamics, 2006, 29, 981-991.	2.8	118
3	Ps-LAMBDA: Ambiguity success rate evaluation software for interferometric applications. Computers and Geosciences, 2013, 54, 361-376.	4.2	96
4	Integer ambiguity validation: an open problem?. GPS Solutions, 2004, 8, 36-43.	4.3	95
5	Testing a new multivariate GNSS carrier phase attitude determination method for remote sensing platforms. Advances in Space Research, 2010, 46, 118-129.	2.6	68
6	Robustness of GNSS integer ambiguity resolution in the presence of atmospheric biases. GPS Solutions, 2014, 18, 283-296.	4.3	65
7	Real-Time PPP-RTK Performance Analysis Using Ionospheric Corrections from Multi-Scale Network Configurations. Sensors, 2020, 20, 3012.	3.8	51
8	Instantaneous Ambiguity Resolution in Global-Navigation-Satellite-System-Based Attitude Determination Applications: A Multivariate Constrained Approach. Journal of Guidance, Control, and Dynamics, 2012, 35, 51-67.	2.8	49
9	A new ambiguity acceptance test threshold determination method with controllable failure rate. Journal of Geodesy, 2015, 89, 361-375.	3.6	36
10	Assessing the Performance of Multi-GNSS PPP-RTK in the Local Area. Remote Sensing, 2020, 12, 3343.	4.0	33
11	Performance improvement with low-cost multi-GNSS receivers. , 2010, , .		32
12	Overview of Pulsar Navigation: Past, Present and Future Trends. Navigation, Journal of the Institute of Navigation, 2011, 58, 153-164.	2.8	31
13	On the probability density function of the GNSS ambiguity residuals. GPS Solutions, 2006, 10, 21-28.	4.3	29
14	Impacts of BeiDou stochastic model on reliability: overall test, w-test and minimal detectable bias. GPS Solutions, 2017, 21, 1095-1112.	4.3	27
15	Precision analysis of partial ambiguity resolution-enabled PPP using multi-GNSS and multi-frequency signals. Advances in Space Research, 2020, 66, 2075-2093.	2.6	27
16	B-spline function-based approach for GPS tropospheric tomography. GPS Solutions, 2020, 24, 1.	4.3	27
17	A Multi-Frequency Galileo PPP-RTK Convergence Analysis with an Emphasis on the Role of Frequency Spacing. Remote Sensing, 2021, 13, 3077.	4.0	25
18	Ambiguity resolution performance with GPS and BeiDou for LEO formation flying. Advances in Space Research, 2014, 54, 830-839.	2.6	24

#	ARTICLE	IF	CITATIONS
19	0.99999999 confidence ambiguity resolution with GPS and Galileo. GPS Solutions, 2002, 6, 96-99.	4.3	23
20	An Optimal Troposphere Tomography Technique Using the WRF Model Outputs and Topography of the Area. Remote Sensing, 2020, 12, 1442.	4.0	23
21	On the approximation of the integer least-sqaures success rate: which lower or upper bound to use?. The Journal of Global Positioning Systems, 2003, 2, 117-124.	1.6	22
22	A vectorial bootstrapping approach for integrated GNSS-based relative positioning and attitude determination of spacecraft. Acta Astronautica, 2011, 68, 1113-1125.	3.2	16
23	Challenges in ambiguity resolution: Biases, weak models, and dimensional curse. , 2012, , .		16
24	GNSS Integer Ambiguity Estimation and Evaluation: LAMBDA and Ps-LAMBDA. Lecture Notes in Electrical Engineering, 2013, , 291-301.	0.4	16
25	Precise Point Positioning Using GPS and Compass Observations. Lecture Notes in Electrical Engineering, 2013, , 367-378.	0.4	15
26	Multiplatform Instantaneous GNSS Ambiguity Resolution for Triple- and Quadruple-Antenna Configurations with Constraints. International Journal of Navigation and Observation, 2009, 2009, 1-14.	0.8	14
27	Empirical Integrity Verification of GNSS and SBAS Based on the Extreme Value Theory. Navigation, Journal of the Institute of Navigation, 2014, 61, 23-38.	2.8	14
28	A data driven partial ambiguity resolution: Two step success rate criterion, and its simulation demonstration. Advances in Space Research, 2016, 58, 2435-2452.	2.6	13
29	The Future of Single-Frequency Integer Ambiguity Resolution. International Association of Geodesy Symposia, 2012, , 33-38.	0.4	13
30	An Efficient Implementation of Fixed Failure-Rate Ratio Test for GNSS Ambiguity Resolution. Sensors, 2016, 16, 945.	3.8	12
31	Precise Point Positioning on the Reliable Detection of Tropospheric Model Errors. Sensors, 2020, 20, 1634.	3.8	12
32	Multivariate bootstrapped relative positioning of spacecraft using GPS L1/Galileo E1 signals. Advances in Space Research, 2011, 47, 770-785.	2.6	11
33	Influence of the inhomogeneous troposphere on GNSS positioning and integer ambiguity resolution. Advances in Space Research, 2021, 67, 1914-1928.	2.6	11
34	The effect of function-based and voxel-based tropospheric tomography techniques on the GNSS positioning accuracy. Journal of Geodesy, 2021, 95, 1.	3.6	11
35	Least-Squares Estimation and Kalman Filtering. , 2017, , 639-660.		10
36	Ambiguity Acceptance Testing: A Comparison of the Ratio Test and Difference Test. Lecture Notes in Electrical Engineering, 2014, , 313-330.	0.4	7

#	Article	IF	Citations
37	Flight-Test Evaluation of Integer Ambiguity Resolution Enabled PPP. Journal of Surveying Engineering, - ASCE, 2021, 147, 04021013.	1.7	6
38	Kriging Interpolation in Modelling Tropospheric Wet Delay. Atmosphere, 2020, 11, 1125.	2.3	5
39	Adaptive, variable resolution grids for bathymetric applications using a quadtree approach. Journal of Applied Geodesy, 2018, 12, 311-322.	1.1	4
40	Reliable positioning with the next generation Global Navigation Satellite Systems. , 2007, , .		3
41	Prediction of Changes in Seafloor Depths Based on Time Series of Bathymetry Observations: Dutch North Sea Case. Journal of Marine Science and Engineering, 2021, 9, 931.	2.6	3
42	Model and Data Driven Partial Ambiguity Resolution for Multi-Constellation GNSS. Lecture Notes in Electrical Engineering, 2014, , 285-302.	0.4	3
43	Experimental assessment of a PPP-based P2-C2 bias estimation. , 2010, , .		2
44	Functional model for spacecraft formation flying using non-dedicated GPS/Galileo receivers. , 2010, , .		2
45	Mitigation of Ionospheric Delay in GPS/BDS Single Frequency PPP: Assessment and Application. Lecture Notes in Electrical Engineering, 2014, , 477-499.	0.4	2
46	Attitude bootstrapped multi-frequency relative positioning. , 2010, , .		1
47	GPS experiment on the Balloon-based Operation Vehicle. , 2010, , .		1
48	Geodetic Sensor Systems and Sensor Networks: Positioning and Applications. International Association of Geodesy Symposia, 2012, , 47-51.	0.4	1
49	Attitude Determination and Relative Positioning for LEO Satellites Using Arrays of GNSS Sensors. International Association of Geodesy Symposia, 2015, , 743-749.	0.4	0
50	Application-Driven Critical Values for GNSS Ambiguity Acceptance Testing. International Association of Geodesy Symposia, 2015, , 719-725.	0.4	0
51	GNSS Ambiguity Resolution and Validation. , 2015, , 1-4.		0