

Sandra Verhagen

List of Publications by Year in descending order

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Version: 2024-02-01

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	Influence of the inhomogeneous troposphere on GNSS positioning and integer ambiguity resolution. <i>Advances in Space Research</i> , 2021, 67, 1914-1928.	2.6	11
2	The effect of function-based and voxel-based tropospheric tomography techniques on the GNSS positioning accuracy. <i>Journal of Geodesy</i> , 2021, 95, 1.	3.6	11
3	Flight-Test Evaluation of Integer Ambiguity Resolution Enabled PPP. <i>Journal of Surveying Engineering, - ASCE</i> , 2021, 147, 04021013.	1.7	6
4	A Multi-Frequency Galileo PPP-RTK Convergence Analysis with an Emphasis on the Role of Frequency Spacing. <i>Remote Sensing</i> , 2021, 13, 3077.	4.0	25
5	Prediction of Changes in Seafloor Depths Based on Time Series of Bathymetry Observations: Dutch North Sea Case. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 931.	2.6	3
6	Kriging Interpolation in Modelling Tropospheric Wet Delay. <i>Atmosphere</i> , 2020, 11, 1125.	2.3	5
7	Assessing the Performance of Multi-GNSS PPP-RTK in the Local Area. <i>Remote Sensing</i> , 2020, 12, 3343.	4.0	33
8	Precision analysis of partial ambiguity resolution-enabled PPP using multi-GNSS and multi-frequency signals. <i>Advances in Space Research</i> , 2020, 66, 2075-2093.	2.6	27
9	An Optimal Troposphere Tomography Technique Using the WRF Model Outputs and Topography of the Area. <i>Remote Sensing</i> , 2020, 12, 1442.	4.0	23
10	Real-Time PPP-RTK Performance Analysis Using Ionospheric Corrections from Multi-Scale Network Configurations. <i>Sensors</i> , 2020, 20, 3012.	3.8	51
11	Precise Point Positioning on the Reliable Detection of Tropospheric Model Errors. <i>Sensors</i> , 2020, 20, 1634.	3.8	12
12	B-spline function-based approach for GPS tropospheric tomography. <i>GPS Solutions</i> , 2020, 24, 1.	4.3	27
13	Adaptive, variable resolution grids for bathymetric applications using a quadtree approach. <i>Journal of Applied Geodesy</i> , 2018, 12, 311-322.	1.1	4
14	Least-Squares Estimation and Kalman Filtering. , 2017, , 639-660.		10
15	Impacts of BeiDou stochastic model on reliability: overall test, w-test and minimal detectable bias. <i>GPS Solutions</i> , 2017, 21, 1095-1112.	4.3	27
16	An Efficient Implementation of Fixed Failure-Rate Ratio Test for GNSS Ambiguity Resolution. <i>Sensors</i> , 2016, 16, 945.	3.8	12
17	A data driven partial ambiguity resolution: Two step success rate criterion, and its simulation demonstration. <i>Advances in Space Research</i> , 2016, 58, 2435-2452.	2.6	13
18	Attitude Determination and Relative Positioning for LEO Satellites Using Arrays of GNSS Sensors. <i>International Association of Geodesy Symposia</i> , 2015, , 743-749.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Application-Driven Critical Values for GNSS Ambiguity Acceptance Testing. International Association of Geodesy Symposia, 2015, , 719-725.	0.4	0
20	A new ambiguity acceptance test threshold determination method with controllable failure rate. Journal of Geodesy, 2015, 89, 361-375.	3.6	36
21	GNSS Ambiguity Resolution and Validation. , 2015, , 1-4.		0
22	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
23	Ambiguity Acceptance Testing: A Comparison of the Ratio Test and Difference Test. Lecture Notes in Electrical Engineering, 2014, , 313-330.	0.4	7
24	Robustness of GNSS integer ambiguity resolution in the presence of atmospheric biases. GPS Solutions, 2014, 18, 283-296.	4.3	65
25	Ambiguity resolution performance with GPS and BeiDou for LEO formation flying. Advances in Space Research, 2014, 54, 830-839.	2.6	24
26	Model and Data Driven Partial Ambiguity Resolution for Multi-Constellation GNSS. Lecture Notes in Electrical Engineering, 2014, , 285-302.	0.4	3
27	Mitigation of Ionospheric Delay in GPS/BDS Single Frequency PPP: Assessment and Application. Lecture Notes in Electrical Engineering, 2014, , 477-499.	0.4	2
28	Ps-LAMBDA: Ambiguity success rate evaluation software for interferometric applications. Computers and Geosciences, 2013, 54, 361-376.	4.2	96
29	Precise Point Positioning Using GPS and Compass Observations. Lecture Notes in Electrical Engineering, 2013, , 367-378.	0.4	15
30	GNSS Integer Ambiguity Estimation and Evaluation: LAMBDA and Ps-LAMBDA. Lecture Notes in Electrical Engineering, 2013, , 291-301.	0.4	16
31	The ratio test for future GNSS ambiguity resolution. GPS Solutions, 2013, 17, 535-548.	4.3	173
32	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
33	Challenges in ambiguity resolution: Biases, weak models, and dimensional curse. , 2012, ,		16
34	The Future of Single-Frequency Integer Ambiguity Resolution. International Association of Geodesy Symposia, 2012, , 33-38.	0.4	13
35	Geodetic Sensor Systems and Sensor Networks: Positioning and Applications. International Association of Geodesy Symposia, 2012, , 47-51.	0.4	1
36	A vectorial bootstrapping approach for integrated GNSS-based relative positioning and attitude determination of spacecraft. Acta Astronautica, 2011, 68, 1113-1125.	3.2	16

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37	Multivariate bootstrapped relative positioning of spacecraft using GPS L1/Galileo E1 signals. <i>Advances in Space Research</i> , 2011, 47, 770-785.	2.6	11
38	Overview of Pulsar Navigation: Past, Present and Future Trends. <i>Navigation, Journal of the Institute of Navigation</i> , 2011, 58, 153-164.	2.8	31
39	Testing a new multivariate GNSS carrier phase attitude determination method for remote sensing platforms. <i>Advances in Space Research</i> , 2010, 46, 118-129.	2.6	68
40	Attitude bootstrapped multi-frequency relative positioning. , 2010, , .		1
41	GPS experiment on the Balloon-based Operation Vehicle. , 2010, , .		1
42	Experimental assessment of a PPP-based P2-C2 bias estimation. , 2010, , .		2
43	Functional model for spacecraft formation flying using non-dedicated GPS/Galileo receivers. , 2010, , .		2
44	Performance improvement with low-cost multi-GNSS receivers. , 2010, , .		32
45	Multiplatform Instantaneous GNSS Ambiguity Resolution for Triple- and Quadruple-Antenna Configurations with Constraints. <i>International Journal of Navigation and Observation</i> , 2009, 2009, 1-14.	0.8	14
46	Reliable positioning with the next generation Global Navigation Satellite Systems. , 2007, , .		3
47	On the probability density function of the GNSS ambiguity residuals. <i>GPS Solutions</i> , 2006, 10, 21-28.	4.3	29
48	New Global Navigation Satellite System Ambiguity Resolution Method Compared to Existing Approaches. <i>Journal of Guidance, Control, and Dynamics</i> , 2006, 29, 981-991.	2.8	118
49	Integer ambiguity validation: an open problem?. <i>GPS Solutions</i> , 2004, 8, 36-43.	4.3	95
50	On the approximation of the integer least-squares success rate: which lower or upper bound to use?. <i>The Journal of Global Positioning Systems</i> , 2003, 2, 117-124.	1.6	22
51	0.99999999 confidence ambiguity resolution with GPS and Galileo. <i>GPS Solutions</i> , 2002, 6, 96-99.	4.3	23