

Gianluca Falco

List of Publications by Year in descending order

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36
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587
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comparative Performance Analysis of GPS L1 C/A, L5 Acquisition and Tracking Stages Under Polar and Equatorial Scintillations. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 227-244.	4.7	7
2	Performance Analysis of the Dispersion of Double Differences Algorithm to Detect Single-Source GNSS Spoofing. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2674-2688.	4.7	6
3	On the Adaptivity of Unscented Particle Filter for GNSS/INS Tightly-Integrated Navigation Unit in Urban Environment. IEEE Access, 2021, 9, 144157-144170.	4.2	9
4	Collaborative Solutions for Interference Management in GNSS-Based Aircraft Navigation. Sensors, 2020, 20, 4085.	3.8	11
5	Experimental Testbed and Methodology for the Assessment of RTK GNSS Receivers Used in Precision Agriculture. IEEE Access, 2020, 8, 14690-14703.	4.2	21
6	GDOP-based analysis of suitability of LEO constellations for future satellite-based positioning. , 2020, , .		19
7	A Linear Regression Model of the Phase Double Differences to Improve the D ³ Spoofing Detection Algorithm. , 2020, , .		0
8	Investigation of performance of GNSS-based devices for precise positioning in harsh agriculture environments. , 2019, , .		2
9	On the Trade-Off between Computational Complexity and Collaborative GNSS Hybridization. , 2019, , .		7
10	GNSS Navigation Threats Management on-Board of Aircraft. INCAS Bulletin, 2019, 11, 111-125.	0.6	6
11	Positioning Based on Tightly Coupled Multiple Sensors: A Practical Implementation and Experimental Assessment. IEEE Access, 2018, 6, 13101-13116.	4.2	14
12	A Dual Antenna GNSS Spoofing Detector Based on the Dispersion of Double Difference Measurements. , 2018, , .		5
13	GNSS receiver performance in urban environment: Challenges and test approaches for automotive applications. , 2017, , .		16
14	Complexity reduction of the Kalman filter-based tracking loops in GNSS receivers. GPS Solutions, 2017, 21, 685-699.	4.3	18
15	Loose and Tight GNSS/INS Integrations: Comparison of Performance Assessed in Real Urban Scenarios. Sensors, 2017, 17, 255.	3.8	133
16	Constellation-aware method for computing the covariance matrix of GNSS measurements. , 2016, , .		1
17	A newly designed tracking loop for power-saving receivers. , 2016, , .		0
18	Theoretical analysis and tuning criteria of the Kalman filter-based tracking loop. GPS Solutions, 2015, 19, 489-503.	4.3	79

#	ARTICLE	IF	CITATIONS
19	Performance comparison of a KF-based and a KF+VDFLL vector tracking-loop in case of GNSS partial outage and low-dynamic conditions. , 2014, , .		13
20	Practical implementation and performance assessment of an Extended Kalman Filter-based signal tracking loop. , 2013, , .		15
21	Bounded Constrained Filtering for GPS/INS Integration. IEEE Transactions on Automatic Control, 2013, 58, 125-133.	5.7	16
22	MULTI-GNSS receivers/IMU system aimed at the design of a heading-constrained Tightly-Coupled algorithm. , 2013, , .		6
23	A Comparison between Different Error Modeling of MEMS Applied to GPS/INS Integrated Systems. Sensors, 2013, 13, 9549-9588.	3.8	145
24	Performance Analysis of Constrained Loosely Coupled GPS/INS Integration Solutions. Sensors, 2012, 12, 15983-16007.	3.8	49
25	A flight in the Piedmont region for water surface detection and altimetry experimentation. , 2012, , .		1
26	Analysis and modelling of MEMS inertial measurement unit. , 2012, , .		15
27	Data decoding of the first Galileo IOV PFM satellite and joint GPS+Galileo positions. , 2012, , .		2
28	The use of altitude constraints within mining navigation. , 2010, , .		0
29	EM Algorithm State Matrix Estimation for Navigation. IEEE Signal Processing Letters, 2010, 17, 437-440.	3.6	19
30	An HW-In-the-Loop Approach for the Assessment of GNSS Local Channel Effects in the Railway Environment. , 0, , .		4
31	An Algorithm for Finding the Direction of Arrival of Counterfeit GNSS Signals on a Civil Aircraft. , 0, , .		3
32	Benefits of a Tightly-coupled GNSS/INS Real-Time Solution in Urban Scenarios and Harsh Environments. , 0, , .		6
33	Performance Evaluation and Comparison of GPS L5 Acquisition Methods under Scintillations. , 0, , .		3
34	A Comparative Analysis of Polar and Equatorial Scintillation Effects on GPS L1 and L5 Tracking Loops. , 0, , .		1
35	On the Use of an Ultra-Tight Integration for Robust Navigation in Jammed Scenarios. , 0, , .		2