Mario Nicola

List of Publications by Year in descending order

33 papers	**244** citations	1307594 **7** h-index	1281871 **11** g-index
34 all docs	**34** docs citations	**34** times ranked	**162** citing authors

#	Article	IF	Citations
1	Synchronization of Critical Infrastructures Dependent Upon GNSS: Current Vulnerabilities and Protection Provided by New Signals. IEEE Systems Journal, 2019, 13, 2118-2129.	4.6	24
2	Software Defined Radio technology for GNSS receivers. , 2014, , .		21
3	Experimental Testbed and Methodology for the Assessment of RTK GNSS Receivers Used in Precision Agriculture. IEEE Access, 2020, 8, 14690-14703.	4.2	21
4	N-FUELS and SOPRANO: Educational tools for simulation, analysis and processing of satellite navigation signals. , 2013, , .		15
5	Positioning Based on Tightly Coupled Multiple Sensors: A Practical Implementation and Experimental Assessment. IEEE Access, 2018, 6, 13101-13116.	4.2	14
6	Computational Load Analysis of a Galileo OSNMA-Ready Receiver for ARM-Based Embedded Platforms. Sensors, 2021, 21, 467.	3.8	12
7	A first-of-a-kind spoofing detection demonstrator exploiting future Galileo E1 OS authentication. , 2016, , .		11
8	Collaborative Solutions for Interference Management in GNSS-Based Aircraft Navigation. Sensors, 2020, 20, 4085.	3.8	11
9	A Real-time OSNMA-ready Software Receiver. , 0, , .		11
10	Evaluation of a FFT-Based Acquisition in Real Time Hardware and Software GNSS Receivers. , 2008, , .		9
11	Galileo OSNMA: an implementation for ARM-based embedded platforms. , 2020, , .		9
12	Enhanced GNSS Authentication Based on the Joint CHIMERA/OSNMA Scheme. IEEE Access, 2021, 9, 121570-121582.	4.2	9
13	Galileo OSNMA Public Observation Phase: Signal Testing and Validation. IEEE Access, 2022, 10, 27960-27969.	4.2	9
14	Hardware design of a low complexity, parallel interleaver for WiMax duo-binary turbo decoding. IEEE Communications Letters, 2008, 12, 846-848.	4.1	8
15	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
16	Benefits of a Tightly-coupled GNSS/INS Real-Time Solution in Urban Scenarios and Harsh Environments. , 0, , .		6
17	GPS Chimera: A Software Profiling Analysis. , 0, , .		6
18	Technique for the estimation of PC clock offset in a GNSS-aided network of collaborative users. , 2010, , .		5

#	Article	IF	Citations
19	A Dual Antenna GNSS Spoofing Detector Based on the Dispersion of Double Difference Measurements. , 2018, , .		5
20	Dependancy of power grids to satellite-derived time: vulnerabilities and new protections. , 2018, , .		5
21	An HW-In-the-Loop Approach for the Assessment of GNSS Local Channel Effects in the Railway Environment. , 0, , .		4
22	VLSI IMPLEMENTATION OF WiMax CONVOLUTIONAL TURBO CODE ENCODER AND DECODER. Journal of Circuits, Systems and Computers, 2009, 18, 535-564.	1.5	3
23	Galileo In-Orbit Validation E1 and E5 signals: Experimental results and assessment. , 2012, , .		3
24	An Algorithm for Finding the Direction of Arrival of Counterfeit GNSS Signals on a Civil Aircraft. , 0, , .		3
25	GPS Chimera: A Software Receiver Implementation. , 0, , .		3
26	The Chimera solution: performance assessment. , 2020, , .		3
27	Data decoding of the first Galileo IOV PFM satellite and joint GPS+Galileo positions. , 2012, , .		2
28	Performance assessment of an ARM-based dual-constellation GNSS software receiver. , 2015, , .		2
29	Investigation of performance of GNSS-based devices for precise positioning in harsh agriculture environments. , 2019, , .		2
30	Constellation-aware method for computing the covariance matrix of GNSS measurements. , 2016, , .		1
31	Beyond 3G wireless communication system prototype. , 2007, , .		0
32	Low resources algorithm for video surveillance. , 2007, , .		0
33	A Linear Regression Model of the Phase Double Differences to Improve the D^3 Spoofing Detection Algorithm. , 2020, , .		0