

Alfredo Renga

List of Publications by Year in descending order

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74
papers

817
citations

623734

14
h-index

610901

24
g-index

75
all docs

75
docs citations

75
times ranked

664
citing authors

#	ARTICLE	IF	CITATIONS
1	Error sources and sensitivity analysis in formation flying synthetic aperture radar. Acta Astronautica, 2022, 192, 97-112.	3.2	8
2	Formation Flying SAR: Analysis of Imaging Performance by Array Theory. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 1480-1497.	4.7	14
3	Towards Automatic Recognition of Wakes Generated by Dark Vessels in Sentinel-1 Images. Remote Sensing, 2021, 13, 1955.	4.0	10
4	Formation-Flying SAR Receivers in Far-From-Transmitter Geometry: Signal Model and Processing Scheme. , 2021, , .		5
5	Formation-Flying SAR Receivers in FAR-from-Transmitter Geometry: X-Band SAR Antenna Design. , 2021, , .		1
6	X-Band SAR Antenna Design for a CubeSat Formation-Flying Remote Sensing Mission. , 2021, , .		1
7	RetinaNet: A deep learning architecture to achieve a robust wake detector in SAR images. , 2021, , .		6
8	First Results on Wake Detection in SAR Images by Deep Learning. Remote Sensing, 2021, 13, 4573.	4.0	9
9	A hybrid technique for wake-based ship detection: precise target localization by deterministic analysis of deep-learning segmented images. , 2021, , .		0
10	Small-UAV Radar Imaging System Performance with GPS and CDGPS Based Motion Compensation. Remote Sensing, 2020, 12, 3463.	4.0	13
11	PRF Selection in Formation-Flying SAR: Experimental Verification on Sentinel-1 Monostatic Repeat-Pass Data. Remote Sensing, 2020, 12, 29.	4.0	8
12	Small Multicopter-UAV-Based Radar Imaging: Performance Assessment for a Single Flight Track. Remote Sensing, 2020, 12, 774.	4.0	15
13	Preliminary performance assessment of Radar-aided monocular Visual Odometry for small aerial platforms. , 2019, , .		0
14	Integration of Automatic Identification System (AIS) Data and Single-Channel Synthetic Aperture Radar (SAR) Images by SAR-Based Ship Velocity Estimation for Maritime Situational Awareness. Remote Sensing, 2019, 11, 2196.	4.0	28
15	Segmentation of Marine SAR Images by Sublook Analysis and Application to Sea Traffic Monitoring. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1463-1477.	6.3	41
16	Improving radar-based mini-UAS navigation in complex environments with outlier rejection. , 2019, , .		3
17	Multi-UAV Carrier Phase Differential GPS and Vision-based Sensing for High Accuracy Attitude Estimation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 93, 245-260.	3.4	18
18	UAV radar imaging for target detection. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Accurate ionospheric delay model for real-time GPS-based positioning of LEO satellites using horizontal VTEC gradient estimation. <i>GPS Solutions</i> , 2018, 22, 1.	4.3	9
20	Enhancing workers safety in worksites through augmented GNSS sensors. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 117, 144-152.	5.0	5
21	Assessment of a micro-UAV system for microwave tomography radar imaging. <i>Remote Sensing of Environment</i> , 2018, 212, 90-102.	11.0	38
22	Robust filter setting in GPS-based relative positioning of small-satellite LEO formations. <i>Advances in Space Research</i> , 2018, 62, 3369-3382.	2.6	2
23	Experimental Analysis of Radar Odometry by Commercial Ultralight Radar Sensor for Miniaturized UAS. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018, 90, 485-503.	3.4	20
24	Passive SAR satellite constellation for near-persistent earth observation: Prospects and issues. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2018, 33, 4-15.	1.3	6
25	Flight demonstration of multi-UAV CDGPS and vision-based sensing for high accuracy attitude estimation. , 2017, , .		3
26	Proof of concept of micro-UAV-based radar imaging. , 2017, , .		19
27	Ionosphere-gradient based filtering approach for precise relative navigation in LEO. , 2017, , .		1
28	On-board orbit determination for low thrust LEO-MEO transfer by Consider Kalman Filtering and multi-constellation GNSS. <i>Acta Astronautica</i> , 2017, 138, 242-254.	3.2	3
29	SAR-Based Vessel Velocity Estimation From Partially Imaged Kelvin Pattern. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 2067-2071.	3.1	34
30	Indoor Operations by FMCW Millimeter Wave SAR Onboard Small UAS: A Simulation Approach. <i>Journal of Sensors</i> , 2016, 2016, 1-13.	1.1	1
31	Ultralight radar sensor for autonomous operations by micro-UAS. , 2016, , .		11
32	Investigation on radar-based applications for mini-UAS and MAVs. , 2016, , .		1
33	Moon-based Synthetic Aperture Radar: Review and challenges. , 2016, , .		14
34	Multi-purposes radar for remote sensing and navigation by mini and micro unmanned aerial vehicles. , 2016, , .		1
35	Prescreening and discrimination of maritime targets in single-channel SAR images. , 2016, , .		0
36	Sentinel-1 bathymetry for North Sea palaeolandscape analysis. <i>International Journal of Remote Sensing</i> , 2016, 37, 471-491.	2.9	12

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37	Use of Doppler Parameters for Ship Velocity Computation in SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3995-4011.	6.3	32
38	Preliminary Study of a Millimeter Wave FMCW InSAR for UAS Indoor Navigation. Sensors, 2015, 15, 2309-2335.	3.8	21
39	Linear Dispersion Relation and Depth Sensitivity to Swell Parameters: Application to Synthetic Aperture Radar Imaging and Bathymetry. Scientific World Journal, The, 2015, 2015, 1-10.	2.1	12
40	Adaptive threshold and sub-look processing in ship detection by SAR. , 2015, , .		3
41	Compact millimeter wave FMCW InSAR for UAS indoor navigation. , 2015, , .		10
42	Performance analysis of millimeter wave FMCW InSAR for UAS indoor operations. , 2015, , .		2
43	Tracking of Coastal Swell Fields in SAR Images for Sea Depth Retrieval: Application to ALOS L-Band Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3532-3540.	4.9	9
44	Cooperative UAV navigation based on distributed multi-antenna GNSS, vision, and MEMS sensors. , 2015, , .		21
45	Geometric total electron content models for topside ionospheric sounding. , 2014, , .		4
46	Ship velocity estimation by Doppler Centroid analysis of focused SAR data. , 2014, , .		4
47	L-band SAR image processing for the determination of coastal bathymetry based on swell analysis. , 2014, , .		4
48	Formation geometries for multistatic SAR tomography. Acta Astronautica, 2014, 96, 11-22.	3.2	10
49	Novel closed-loop approaches for precise relative navigation of widely separated GPS receivers in LEO. Acta Astronautica, 2014, 93, 243-251.	3.2	9
50	Real-Time Relative Positioning of Spacecraft over Long Baselines. Journal of Guidance, Control, and Dynamics, 2014, 37, 47-58.	2.8	13
51	On-the-fly outlier rejection in high-precision spaceborne GPS applications. , 2014, , .		1
52	SAR Bathymetry in the Tyrrhenian Sea by COSMO-SkyMed Data: A Novel Approach. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2834-2847.	4.9	17
53	Earth observation with MEO transmitters and UAS receivers: A potential utilization of Galileo constellation. Acta Astronautica, 2014, 94, 93-103.	3.2	3
54	Ionospheric delays compensation for on-the-fly integer ambiguity resolution in long baseline LEO formations. International Journal of Space Science and Engineering, 2014, 2, 63.	0.1	1

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55	Validation on flight data of a closed-loop approach for GPS-based relative navigation of LEO satellites. <i>Acta Astronautica</i> , 2013, 86, 126-135.	3.2	13
56	Galileo-based space-airborne bistatic SAR for UAS navigation. <i>Aerospace Science and Technology</i> , 2013, 27, 193-200.	4.8	10
57	Relative Navigation in LEO by Carrier-Phase Differential GPS with Intersatellite Ranging Augmentation. <i>International Journal of Aerospace Engineering</i> , 2013, 2013, 1-11.	0.9	15
58	Real-Time Hardware-in-the-Loop Tests of Star Tracker Algorithms. <i>International Journal of Aerospace Engineering</i> , 2013, 2013, 1-13.	0.9	10
59	Real-Time Hardware-in-the-Loop Laboratory Testing for Multisensor Sense and Avoid Systems. <i>International Journal of Aerospace Engineering</i> , 2013, 2013, 1-9.	0.9	4
60	An Algorithm for Managing Aircraft Movement on an Airport Surface. <i>Algorithms</i> , 2013, 6, 494-511.	2.1	7
61	Bistatic Synthetic Aperture Radar. , 2013, , 3-59.		6
62	Sabrina. , 2013, , 447-471.		2
63	Spatial Resolution of Bistatic Synthetic Aperture Radar: Impact of Acquisition Geometry on Imaging Performance. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 3487-3503.	6.3	77
64	An advanced system for performance evaluation of integrated navigation systems. , 2011, , .		1
65	SAR-based sea traffic monitoring: a reliable approach for maritime surveillance. <i>Proceedings of SPIE</i> , 2011, , .	0.8	6
66	Ionospheric path delay models for spaceborne GPS receivers flying in formation with large baselines. <i>Advances in Space Research</i> , 2011, 48, 507-520.	2.6	24
67	An advanced system for performance evaluation of integrated navigation systems. , 2011, , .		0
68	Spaceborne-airborne bistatic radar for UAS navigation purposes: Preliminary analysis and strawman system identification. , 2010, , .		2
69	GPS-based Relative Navigation of LEO formations with Varying Baselines. , 2010, , .		8
70	Synthetic Aperture Radar for Earth Observation from a Lunar Base: Performance and Potential Applications. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2010, 46, 1034-1051.	4.7	57
71	Effects of Orbit and Pointing Geometry of a Spaceborne Formation for Monostatic-Bistatic Radargrammetry on Terrain Elevation Measurement Accuracy. <i>Sensors</i> , 2009, 9, 175-195.	3.8	5
72	Performance of Stereoradargrammetric Methods Applied to Spaceborne Monostatic-Bistatic Synthetic Aperture Radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 544-560.	6.3	24

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73	Hybrid space-airborne bistatic SAR geometric resolutions. Proceedings of SPIE, 2009, , .	0.8	2
74	From the expected scientific applications to the functional specifications, products and performance of the SABRINA missions. , 2008, , .		6