

Alessandra Budillon

List of Publications by Year in descending order

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58
papers

882
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58
all docs

58
docs citations

58
times ranked

407
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional SAR Focusing From Multipass Signals Using Compressive Sampling. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 488-499.	6.3	251
2	GLRT Based on Support Estimation for Multiple Scatterers Detection in SAR Tomography. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1086-1094.	4.9	67
3	Estimation of Radial Velocity of Moving Targets by Along-Track Interferometric SAR Systems. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 349-353.	3.1	65
4	SAR tomography from sparse samples. , 2009, , .		45
5	GLRT Detection of Moving Targets via Multibaseline Along-Track Interferometric SAR Systems. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 348-352.	3.1	40
6	From Interferometric to Tomographic SAR: A Review of Synthetic Aperture Radar Tomography-Processing Techniques for Scatterer Unmixing in Urban Areas. IEEE Geoscience and Remote Sensing Magazine, 2020, 8, 6-29.	9.6	40
7	Localization Performance of Multiple Scatterers in Compressive Sampling SAR Tomography: Results on COSMO-SkyMed Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2902-2910.	4.9	39
8	Layover Solution in SAR Imaging: A Statistical Approach. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 577-581.	3.1	37
9	A Fast Support Detector for Superresolution Localization of Multiple Scatterers in SAR Tomography. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2768-2779.	4.9	36
10	Performance Evaluation of a GLRT Moving Target Detector for TerraSAR-X Along-Track Interferometric Data. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3350-3360.	6.3	31
11	Extension of a Fast GLRT Algorithm to 5D SAR Tomography of Urban Areas. Remote Sensing, 2017, 9, 844.	4.0	29
12	Multichannel SAR Interferometry via Classical and Bayesian Estimation Techniques. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	23
13	Along-Track Interferometric SAR Systems for Ground-Moving Target Indication: Achievements, Potentials, and Outlook. IEEE Geoscience and Remote Sensing Magazine, 2020, 8, 46-63.	9.6	20
14	Multibaseline SAR Interferometry from Complex Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2911-2918.	4.9	19
15	Comparison of Persistent Scatterer Interferometry and SAR Tomography Using Sentinel-1 in Urban Environment. Remote Sensing, 2018, 10, 1986.	4.0	19
16	Multichannel Along-Track Interferometric SAR Systems: Moving Targets Detection and Velocity Estimation. International Journal of Navigation and Observation, 2008, 2008, 1-16.	0.8	18
17	Urban Tomographic Imaging Using Polarimetric SAR Data. Remote Sensing, 2019, 11, 132.	4.0	18
18	Analyzing urbanization induced groundwater stress and land deformation using time-series Sentinel-1 datasets applying PSInSAR approach. Science of the Total Environment, 2022, 844, 157103.	8.0	14

#	ARTICLE	IF	CITATIONS
19	Multi-baseline along track SAR interferometric systems for ground moving target indication. , 2010, , .		13
20	Performance Improvement for SAR Tomography Based on Local Plane Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 2298-2310.	4.9	8
21	Joint estimation of moving target reflectivity and velocity via AT-InSAR systems based on complex interferometric data. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 75, 1-10.	11.1	6
22	Multiple scatterers detection in CS-based SAR tomography. , 2014, , .		4
23	Contextual Information Based SAR Tomography of Urban Areas. , 2019, , .		4
24	Editorial for the Special Issue "Urban Deformation Monitoring using Persistent Scatterer Interferometry and SAR Tomography" Remote Sensing, 2019, 11, 1306.	4.0	4
25	Compressive sensing methods for SAR imaging. , 2014, , .		3
26	Remote Monitoring of Civil Infrastructure Based on TomoSAR. Infrastructures, 2022, 7, 52.	2.8	3
27	Moving Target Detection in along Track SAR Interferometry from In-Phase and Quadrature Components Data. , 2008, , .		2
28	GRLT detection of moving target by along track SAR interferometric systems. , 2009, , .		2
29	SAR tomographic focusing by Compressive Sampling: Experiments on real data. , 2010, , .		2
30	GLRT persistent scatterers detector. , 2012, , .		2
31	Compressive sampling in SAR tomography: Results on COSMO-SkyMed data. , 2012, , .		2
32	Full 3D DEM Generation in Urban Area By Improving Estimation from SAR Tomography. , 2018, , .		2
33	On the Separation of Ground and Canopy Scatterings Using Single Polarimetric Multi-Baseline SAR Tomography. , 2019, , .		2
34	DEM reconstruction in urban scenario. , 2009, , .		1
35	Joint SAR imaging and DEM reconstruction from multichannel layover-affected SAR data. , 2009, , .		1
36	Artifact reduction in SAR Compressive Sampling tomography. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
37	Support Detection for SAR Tomographic Reconstructions from Compressive Measurements. Scientific World Journal, The, 2015, 2015, 1-6.	2.1	1
38	Support based multiple scatterers detection in SAR tomography. , 2015, , .		1
39	Detection of single scatterers in correlated clutter using multi-channel SAR interferometric data. , 2015, , .		1
40	A modified statistical test based on support estimation for multiple scatterers detection in SAR tomography. , 2016, , .		1
41	On the role of non-local filtering in forest vertical structure characterization using SAR tomography. , 2017, , .		1
42	Scatterer detection in urban environment using persistent scatterer interferometry and SAR tomography. , 2017, , .		1
43	Phase Error Compensation in Multi-Baseline SAR Tomography. , 2018, , .		1
44	Three-Dimensional Target Scattering Classification Using Full-Rank Polarimetric Tomographic SAR Focusing. , 2019, , .		1
45	Generalized Independent Component Analysis as Density Estimation. Lecture Notes in Computer Science, 2002, , 83-89.	1.3	1
46	Searching for a binary factorial code using the ICA framework. Neurocomputing, 1998, 22, 131-144.	5.9	0
47	New trends in SAR tomography. , 2010, , .		0
48	Preliminary results of GLRT moving targets detection on TerraSAR-X data. , 2011, , .		0
49	Persistent scatterers detection assessment on COSMO-SkyMed data. , 2012, , .		0
50	GLRT moving targets detection performance assessment on TerraSAR-X ATI data. , 2012, , .		0
51	SAR image compression based on sparsity. , 2015, , .		0
52	Sparsity based detection of multiple targets in 3D-SAR imaging. , 2015, , .		0
53	Support-detection 5-D SAR tomography. , 2016, , .		0
54	TomoSAR Processing for Scatterers Detection using Parallel Implementation on Fast Support Detector. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Infrastructure Health Monitoring Using SAR Tomography. Lecture Notes in Civil Engineering, 2021, , 257-270.	0.4	0
56	Polsar Tomographic Techniques Using Surface Slope Parameters in Urban Areas. , 2021, , .		0
57	Performance Improvement of SAR Tomography in Urban Scenarios Based on Local-Plane GLRT. , 2021, , .		0
58	Regularized SAR Tomography Approaches. , 2020, , .		0