Fabio Baselice

List of Publications by Year
in descending order

84 papers	1,109 citations	331670 21 h-index	454955 30 g-index
91 all docs	91 docs citations	91 times ranked	1104 citing authors

#	Article	IF	Citations
1	Type and Location of Wearable Sensors for Monitoring Falls during Static and Dynamic Tasks in Healthy Elderly: A Review. Sensors, 2018, 18, 1613.	3.8	90
2	Unsupervised Coastal Line Extraction From SAR Images. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1350-1354.	3.1	65
3	Brain functional networks become more connected as amyotrophic lateral sclerosis progresses: a source level magnetoencephalographic study. NeuroImage: Clinical, 2018, 20, 564-571.	2.7	58
4	Contextual Information-Based Multichannel Synthetic Aperture Radar Interferometry: Addressing DEM reconstruction using contextual information. IEEE Signal Processing Magazine, 2014, 31, 59-68.	5.6	56
5	Urban Digital Elevation Model Reconstruction Using Very High Resolution Multichannel InSAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4748-4758.	6.3	52
6	Flexible brain dynamics underpins complex behaviours as observed in Parkinson's disease. Scientific Reports, 2021, 11, 4051.	3.3	48
7	Mindfulness Meditation Is Related to Long-Lasting Changes in Hippocampal Functional Topology during Resting State: A Magnetoencephalography Study. Neural Plasticity, 2018, 2018, 1-9.	2.2	44
8	Markovian Change Detection of Urban Areas Using Very High Resolution Complex SAR Images. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 995-999.	3.1	39
9	Layover Solution in SAR Imaging: A Statistical Approach. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 577-581.	3.1	37
10	Enhanced Wiener filter for ultrasound image restoration. Computer Methods and Programs in Biomedicine, 2018, 153, 71-81.	4.7	37
11	Phase Linearity Measurement: A Novel Index for Brain Functional Connectivity. IEEE Transactions on Medical Imaging, 2019, 38, 873-882.	8.9	32
12	A 3D MRI denoising algorithm based on Bayesian theory. BioMedical Engineering OnLine, 2017, 16, 25.	2.7	30
13	Bayesian MRI denoising in complex domain. Magnetic Resonance Imaging, 2017, 38, 112-122.	1.8	30
14	Ultrasound Image Despeckling Based on Statistical Similarity. Ultrasound in Medicine and Biology, 2017, 43, 2065-2078.	1.5	30
15	Amnestic Mild Cognitive Impairment Is Associated With Frequency-Specific Brain Network Alterations in Temporal Poles. Frontiers in Aging Neuroscience, 2018, 10, 400.	3.4	29
16	Edge Detection Using Real and Imaginary Decomposition of SAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3833-3842.	6.3	27
17	Denoising of MR images using Kolmogorov-Smirnov distance in a Non Local framework. Magnetic Resonance Imaging, 2019, 57, 176-193.	1.8	27
18	Statistical Edge Detection in Urban Areas Exploiting SAR Complex Data. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 185-189.	3.1	26

#	Article	IF	Citations
19	Mutations in the SPAST gene causing hereditary spastic paraplegia are related to global topological alterations in brain functional networks. Neurological Sciences, 2019, 40, 979-984.	1.9	26
20	DEM Reconstruction in Layover Areas From SAR and Auxiliary Input Data. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 253-257.	3.1	25
21	Field Map Reconstruction in Magnetic Resonance Imaging Using Bayesian Estimation. Sensors, 2010, 10, 266-279.	3.8	23
22	Relaxation Time Estimation from Complex Magnetic Resonance Images. Sensors, 2010, 10, 3611-3625.	3.8	22
23	Optimal Configuration for Relaxation Times Estimation in Complex Spin Echo Imaging. Sensors, 2014, 14, 2182-2198.	3.8	22
24	A Multi-Channel Ultrasound System for Non-Contact Heart Rate Monitoring. IEEE Sensors Journal, 2020, 20, 2064-2074.	4.7	20
25	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
26	A Bayesian approach for relaxation times estimation in MRI. Magnetic Resonance Imaging, 2016, 34, 312-325.	1.8	14
27	Extended Kalman Filter for Multichannel InSAR Height Reconstruction. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5854-5863.	6.3	14
28	Speckle reduction based on Wiener filter in ultrasound images. , 2015, 2015, 3065-8.		12
29	3D automotive imaging radar for transportation systems monitoring. , 2014, , .		11
30	T_1 and T_2 estimation in complex domain: First results on clinical data. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2014, 43, 166-176.	0.5	11
31	Intra voxel analysis in magnetic resonance imaging. Magnetic Resonance Imaging, 2017, 37, 70-80.	1.8	10
32	An automated magnetoencephalographic data cleaning algorithm. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 1116-1125.	1.6	9
33	Neuronal Avalanches to Study the Coordination of Large-Scale Brain Activity: Application to Rett Syndrome. Frontiers in Psychology, 2020, 11, 550749.	2.1	9
34	Anisotropic Weighted KS-NLM Filter for Noise Reduction in MRI. IEEE Access, 2020, 8, 184866-184884.	4.2	9
35	A DBSCAN based approach for jointly segment and classify brain MR images. , 2015, 2015, 2993-6.		6
36	An extension of Phase Linearity Measurement for revealing cross frequency coupling among brain areas. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 135.	4.6	6

#	Article	IF	Citations
37	wKSR-NLM: An Ultrasound Despeckling Filter Based on Patch Ratio and Statistical Similarity. IEEE Access, 2020, 8, 150773-150783.	4.2	6
38	A New Methodology for 3D Target Detection in Automotive Radar Applications. Sensors, 2016, 16, 614.	3.8	5
39	Three dimensional reconstruction using COSMO-SkyMed high-resolution data. , 2011, , .		4
40	Coastal line extraction from SAR multi-channel images. , 2012, , .		4
41	Enhanced wiener filter for despleckling ultra-sound images. , 2016, , .		4
42	Brain connectivity study by multichannel system based on superconducting quantum magnetic sensors. Engineering Research Express, 2020, 2, 015038.	1.6	4
43	Ultrasound despeckling based on Non Local Means. IFMBE Proceedings, 2018, , 109-112.	0.3	4
44	Cyclostationary Analysis for Heart Rate Variability. Open Bioinformatics Journal, 2018, 11, 164-181.	1.0	4
45	A Novel Statistical Approach for Brain MR Images Segmentation Based on Relaxation Times. BioMed Research International, 2015, 2015, 1-13.	1.9	3
46	Compressive sensing for in depth focusing in 3D automotive imaging radar. , 2015, , .		3
47	InSAR urban DEM generation using Extended Kalman filter. , 2014, , .		2
48	Joint InSAR DEM and deformation estimation in a Bayesian framework. , 2014, , .		2
49	A new application of compressive sensing in MRI. , 2014, , .		2
50	Probabilistic data association Kalman filter for multi-channel phase unwrapping. , 2015, , .		2
51	Multi-frequency and multi-baseline ground based SAR for environmental monitoring. , 2015, , .		2
52	Detection of Cross-Frequency Coupling Between Brain Areas: An Extension of Phase Linearity Measurement. Frontiers in Neuroscience, 2022, 16, 846623.	2.8	2
53	An Experimental Ultrasound Database for Tomographic Imaging. Applied Sciences (Switzerland), 2022, 12, 5192.	2.5	2
54	Bayesian DEM Reconstruction from SAR and Optical Data. , 2008, , .		1

#	Article	IF	Citations
55	DEM reconstruction in urban scenario. , 2009, , .		1
56	Joint SAR imaging and DEM reconstruction from multichannel layover-affected SAR data. , 2009, , .		1
57	Building edge detection from SAR amplitude and phase data. , 2011, , .		1
58	Intra voxel analysis in MRI. Proceedings of SPIE, 2014, , .	0.8	1
59	A Bayesian method for speckle reduction in single-look SAR images. , 2015, , .		1
60	Urban SAR image filtering exploiting Bayesian estimation theory. , 2017, , .		1
61	Kolgomorov Smirnov test based approach for SAR automatic target recognition. , 2017, , .		1
62	New trends in SAR tomography. , 2010, , .		0
63	Building edge detection from SAR complex data. , 2011, , .		0
64	Relaxation time estimation in MRI. , 2012, , .		0
65	A complex data based building edge detector for TanDEM-X Mission. , 2012, , .		0
66	Man-made structure edge detector using a single Cosmo-SKYMED Spotlight image. , 2012, , .		0
67	SAR change detection in a Markovian Bayesian framework. , 2013, , .		0
68	A Markovian approach for urban change detection in multitemporal complex SAR images. , 2013, , .		0
69	Lake shore extraction exploiting complex decomposition. , 2013, , .		0
70	Ground Based SAR for environmental risk monitoring. , 2014, , .		0
71	Subsidence rate estimation in urban environment exploiting InSAR data. , 2014, , .		0
72	A new phase unwrapping approach using mutually correlated multi-baseline interferograms. , 2014, , .		0

#	Article	IF	Citations
73	Relaxation times estimation in MRI. , 2014, , .		0
74	The exploitation of multiple MR measurements for diagnosis support. , 2015, , .		0
75	Relaxation time based classification of magnetic resonance brain images. , 2015, , .		0
76	A novel application of Kalman Filter: 3D Reconstruction of urban areas from InSAR data. , 2015, , .		0
77	3D denosing of magnetic resonance images exploiting Bayesian estimation theory. , 2016, , .		0
78	SAR despeckling based on Enhanced Wiener Filter. , 2016, , .		0
79	Bayesian MRI noise filtering in complex domain. , 2016, , .		0
80	MRI multicomponent relaxometry based on compressive sensing. , 2016, , .		0
81	KSR-NLM: a non local means despeckling filter for ultrasound images based on ratio patch and KS distance. , 2018, 2018, 5583-5585.		0
82	Magnetic Resonance Imaging Restoration based on Kolmogorov-Smirnov Non Local Mean. IFMBE Proceedings, 2018, , 318-321.	0.3	0
83	A Novel Brain Functional Connectivity Measurement Based on Phase Similarity. Biosystems and Biorobotics, 2019, , 564-568.	0.3	0
84	Magnetoencephalography System Based on Quantum Magnetic Sensors for Clinical Applications. Lecture Notes in Electrical Engineering, 2019, , 203-209.	0.4	0