Fabio Baselice

List of Publications by Year
in descending order

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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	Detection of Cross-Frequency Coupling Between Brain Areas: An Extension of Phase Linearity Measurement. Frontiers in Neuroscience, 2022, 16, 846623.	2.8	2
2	An Experimental Ultrasound Database for Tomographic Imaging. Applied Sciences (Switzerland), 2022, 12, 5192.	2.5	2
3	Flexible brain dynamics underpins complex behaviours as observed in Parkinsonâ€™s disease. Scientific Reports, 2021, 11, 4051.	3.3	48
4	A Multi-Channel Ultrasound System for Non-Contact Heart Rate Monitoring. IEEE Sensors Journal, 2020, 20, 2064-2074.	4.7	20
5	Neuronal Avalanches to Study the Coordination of Large-Scale Brain Activity: Application to Rett Syndrome. Frontiers in Psychology, 2020, 11, 550749.	2.1	9
6	Anisotropic Weighted KS-NLM Filter for Noise Reduction in MRI. IEEE Access, 2020, 8, 184866-184884.	4.2	9
7	wKSR-NLM: An Ultrasound Despeckling Filter Based on Patch Ratio and Statistical Similarity. IEEE Access, 2020, 8, 150773-150783.	4.2	6
8	Brain connectivity study by multichannel system based on superconducting quantum magnetic sensors. Engineering Research Express, 2020, 2, 015038.	1.6	4
9	An automated magnetoencephalographic data cleaning algorithm. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 1116-1125.	1.6	9
10	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
11	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
12	Phase Linearity Measurement: A Novel Index for Brain Functional Connectivity. IEEE Transactions on Medical Imaging, 2019, 38, 873-882.	8.9	32
13	Denoising of MR images using Kolmogorov-Smirnov distance in a Non Local framework. Magnetic Resonance Imaging, 2019, 57, 176-193.	1.8	27
14	A Novel Brain Functional Connectivity Measurement Based on Phase Similarity. Biosystems and Biorobotics, 2019, , 564-568.	0.3	0
15	Magnetoencephalography System Based on Quantum Magnetic Sensors for Clinical Applications. Lecture Notes in Electrical Engineering, 2019, , 203-209.	0.4	0
16	Enhanced Wiener filter for ultrasound image restoration. Computer Methods and Programs in Biomedicine, 2018, 153, 71-81.	4.7	37
17	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
18	KSR-NLM: a non local means despeckling filter for ultrasound images based on ratio patch and KS distance. , 2018, 2018, 5583-5585.		0

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19	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
20	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
21	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
22	Magnetic Resonance Imaging Restoration based on Kolmogorov-Smirnov Non Local Mean. IFMBE Proceedings, 2018, , 318-321.	0.3	0
23	Ultrasound despeckling based on Non Local Means. IFMBE Proceedings, 2018, , 109-112.	0.3	4
24	Cyclostationary Analysis for Heart Rate Variability. Open Bioinformatics Journal, 2018, 11, 164-181.	1.0	4
25	Intra voxel analysis in magnetic resonance imaging. Magnetic Resonance Imaging, 2017, 37, 70-80.	1.8	10
26	Urban SAR image filtering exploiting Bayesian estimation theory. , 2017, , .		1
27	A 3D MRI denoising algorithm based on Bayesian theory. BioMedical Engineering OnLine, 2017, 16, 25.	2.7	30
28	Bayesian MRI denoising in complex domain. Magnetic Resonance Imaging, 2017, 38, 112-122.	1.8	30
29	Ultrasound Image Despeckling Based on Statistical Similarity. Ultrasound in Medicine and Biology, 2017, 43, 2065-2078.	1.5	30
30	Extended Kalman Filter for Multichannel InSAR Height Reconstruction. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5854-5863.	6.3	14
31	Kolgomorov Smirnov test based approach for SAR automatic target recognition. , 2017, , .		1
32	A New Methodology for 3D Target Detection in Automotive Radar Applications. Sensors, 2016, 16, 614.	3.8	5
33	3D denosing of magnetic resonance images exploiting Bayesian estimation theory. , 2016, , .		0
34	SAR despeckling based on Enhanced Wiener Filter. , 2016, , .		0
35	Bayesian MRI noise filtering in complex domain. , 2016, , .		0
36	MRI multicomponent relaxometry based on compressive sensing. , 2016, , .		0

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37	Enhanced wiener filter for desplecking ultra-sound images. , 2016, , .		4
38	A Bayesian approach for relaxation times estimation in MRI. Magnetic Resonance Imaging, 2016, 34, 312-325.	1.8	14
39	A Novel Statistical Approach for Brain MR Images Segmentation Based on Relaxation Times. BioMed Research International, 2015, 2015, 1-13.	1.9	3
40	A Bayesian method for speckle reduction in single-look SAR images. , 2015, , .		1
41	The exploitation of multiple MR measurements for diagnosis support. , 2015, , .		0
42	A DBSCAN based approach for jointly segment and classify brain MR images. , 2015, 2015, 2993-6.		6
43	Relaxation time based classification of magnetic resonance brain images. , 2015, , .		0
44	Speckle reduction based on Wiener filter in ultrasound images. , 2015, 2015, 3065-8.		12
45	Probabilistic data association Kalman filter for multi-channel phase unwrapping. , 2015, , .		2
46	Multi-frequency and multi-baseline ground based SAR for environmental monitoring. , 2015, , .		2
47	Compressive sensing for in depth focusing in 3D automotive imaging radar. , 2015, , .		3
48	A novel application of Kalman Filter: 3D Reconstruction of urban areas from InSAR data. , 2015, , .		0
49	InSAR urban DEM generation using Extended Kalman filter. , 2014, , .		2
50	Optimal Configuration for Relaxation Times Estimation in Complex Spin Echo Imaging. Sensors, 2014, 14, 2182-2198.	3.8	22
51	Ground Based SAR for environmental risk monitoring. , 2014, , .		0
52	Intra voxel analysis in MRI. Proceedings of SPIE, 2014, , .	0.8	1
53	3D automotive imaging radar for transportation systems monitoring. , 2014, , .		11
54	Subsidence rate estimation in urban environment exploiting InSAR data. , 2014, , .		0

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55	Joint InSAR DEM and deformation estimation in a Bayesian framework. , 2014, , .		2
56	A new phase unwrapping approach using mutually correlated multi-baseline interferograms. , 2014, , .		0
57	A new application of compressive sensing in MRI. , 2014, , .		2
58	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
59	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
60	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
61	Edge Detection Using Real and Imaginary Decomposition of SAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3833-3842.	6.3	27
62	Relaxation times estimation in MRI. , 2014, , .		0
63	T₁ and <scp>T₂</scp> 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
64	SAR change detection in a Markovian Bayesian framework. , 2013, , .		0
65	Unsupervised Coastal Line Extraction From SAR Images. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1350-1354.	3.1	65
66	A Markovian approach for urban change detection in multitemporal complex SAR images. , 2013, , .		0
67	Lake shore extraction exploiting complex decomposition. , 2013, , .		0
68	Relaxation time estimation in MRI. , 2012, , .		0
69	A complex data based building edge detector for TanDEM-X Mission. , 2012, , .		0
70	Man-made structure edge detector using a single Cosmo-SKYMED Spotlight image. , 2012, , .		0
71	Coastal line extraction from SAR multi-channel images. , 2012, , .		4
72	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

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73	Statistical Edge Detection in Urban Areas Exploiting SAR Complex Data. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 185-189.	3.1	26
74	Three dimensional reconstruction using COSMO-SkyMed high-resolution data. , 2011, , .		4
75	Building edge detection from SAR complex data. , 2011, , .		0
76	Building edge detection from SAR amplitude and phase data. , 2011, , .		1
77	Field Map Reconstruction in Magnetic Resonance Imaging Using Bayesian Estimation. Sensors, 2010, 10, 266-279.	3.8	23
78	Relaxation Time Estimation from Complex Magnetic Resonance Images. Sensors, 2010, 10, 3611-3625.	3.8	22
79	New trends in SAR tomography. , 2010, , .		0
80	DEM reconstruction in urban scenario. , 2009, , .		1
81	DEM Reconstruction in Layover Areas From SAR and Auxiliary Input Data. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 253-257.	3.1	25
82	Layover Solution in SAR Imaging: A Statistical Approach. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 577-581.	3.1	37
83	Joint SAR imaging and DEM reconstruction from multichannel layover-affected SAR data. , 2009, , .		1
84	Bayesian DEM Reconstruction from SAR and Optical Data. , 2008, , .		1