Fabrizio Argenti

List of Publications by Year
in descending order

95 papers	1,518 citations	471061 17 h-index	329751 37 g-index
95 all docs	95 docs citations	95 times ranked	1179 citing authors

#	Article	IF	Citations
1	A Tutorial on Speckle Reduction in Synthetic Aperture Radar Images. IEEE Geoscience and Remote Sensing Magazine, 2013, 1, 6-35.	4.9	366
2	Speckle removal from SAR images in the undecimated wavelet domain. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 2363-2374.	2.7	250
3	Segmentation-Based MAP Despeckling of SAR Images in the Undecimated Wavelet Domain. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2728-2742.	2.7	100
4	Multiresolution MAP Despeckling of SAR Images Based on Locally Adaptive Generalized Gaussian pdf Modeling. IEEE Transactions on Image Processing, 2006, 15, 3385-3399.	6.0	92
5	Fast MAP Despeckling Based on Laplacianâ€"Gaussian Modeling of Wavelet Coefficients. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 13-17.	1.4	64
6	A Survey of Deep Learning-Based Source Image Forensics. Journal of Imaging, 2020, 6, 9.	1.7	41
7	Filterbanks design for multisensor data fusion. IEEE Signal Processing Letters, 2000, 7, 100-103.	2.1	40
8	Identification of spatially filtered stimuli as function of the semantic category. Cognitive Brain Research, 2001, 12, 475-478.	3.3	35
9	Blind Speckle Decorrelation for SAR Image Despeckling. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1044-1058.	2.7	35
10	MMSE filtering of generalised signal-dependent noise in spatial and shift-invariant wavelet domains. Signal Processing, 2006, 86, 2056-2066.	2.1	31
11	Design of pseudo-QMF banks with rational sampling factors using several prototype filters. IEEE Transactions on Signal Processing, 1998, 46, 1709-1715.	3.2	23
12	Normalized Differential Spectral Attenuation (NDSA) Measurements Between Two LEO Satellites: Performance Analysis in the Ku/K-Bands. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2345-2356.	2.7	23
13	Wide-angle and long-range real time pose estimation: A comparison between monocular and stereo vision systems. Journal of Visual Communication and Image Representation, 2017, 48, 159-168.	1.7	22
14	A Deep Learning Approach to Ancient Egyptian Hieroglyphs Classification. IEEE Access, 2021, 9, 123438-123447.	2.6	22
15	Speckle Suppression in Ultrasonic Images Based on Undecimated Wavelets. Eurasip Journal on Advances in Signal Processing, 2003, 2003, 1.	1.0	19
16	LMMSE and MAP estimators for reduction of multiplicative noise in the nonsubsampled contourlet domain. Signal Processing, 2009, 89, 1891-1901.	2.1	19
17	Design of IIR eigenfilters in the frequency domain. IEEE Transactions on Signal Processing, 1998, 46, 1694-1698.	3.2	18
18	Design of IIR linear-phase QMF banks based on complex allpass sections. IEEE Transactions on Signal Processing, 1996, 44, 1262-1267.	3.2	17

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19	Fast calculation of co-occurrence matrix parameters for image segmentation. Electronics Letters, 1990, 26, 23-24.	0.5	16
20	Radar Pulse Compression Methods Based on Nonlinear and Quadratic Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3904-3916.	2.7	16
21	Power allocation strategy for Cognitive Radio terminals. , 2008, , .		14
22	Accurate Despeckling and Estimation of Polarimetric Features by Means of a Spatial Decorrelation of the Noise in Complex PolSAR Data. Remote Sensing, 2020, 12, 331.	1.8	14
23	Amplitude vs intensity Bayesian despeckling in the wavelet domain for SAR images. , 2013, 23, 1353-1362.		13
24	Source coding and transmission of HDTV images compressed with the wavelet transform. IEEE Journal on Selected Areas in Communications, 1993, 11, 46-58.	9.7	12
25	Design of biorthogonal M-channel cosine-modulated FIR/IIR filter banks. IEEE Transactions on Signal Processing, 2000, 48, 876-881.	3.2	12
26	Automatic Transcription of Polyphonic Music Based on the Constant-Q Bispectral Analysis. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1610-1630.	3.8	11
27	Design and experimental tests of active control barriers for low-frequency stationary noise reduction in urban outdoor environment. Applied Acoustics, 2016, 114, 125-135.	1.7	11
28	Time–frequency MSE analysis of linear channel estimation methods for the LTE downlink. Transactions on Emerging Telecommunications Technologies, 2015, 26, 704-717.	2.6	9
29	The Normalized Differential Spectral Sensitivity Approach Applied to the Retrieval of Tropospheric Water Vapor Fields Using a Constellation of Corotating LEO Satellites. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 135-152.	2.7	9
30	Road Surface Anomaly Assessment Using Low-Cost Accelerometers: A Machine Learning Approach. Sensors, 2022, 22, 3788.	2.1	9
31	Rational sampling filter banks based on IIR filters. IEEE Transactions on Signal Processing, 1998, 46, 3403-3408.	3.2	8
32	Eigenfilter design of real and complex coefficient QMF prototypes. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2000, 47, 787-792.	2.3	8
33	IIR implementation of wavelet decomposition for digital signal analysis. Electronics Letters, 1992, 28, 513.	0.5	8
34	Non-uniform filter banks based on a multi-prototype cosine modulation. , 0, , .		7
35	Multisensor image fusion by frequency spectrum substitution: subband and multirate approaches for a 3:5 scale ratio case. , 0, , .		7
36	Generalised stop-and-wait protocol. Electronics Letters, 1992, 28, 861.	0.5	6

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37	Performance of Filterbank and Wavelet Transceivers in the Presence of Carrier Frequency Offset. IEEE Transactions on Communications, 2005, 53, 1323-1332.	4.9	6
38	Vector median deblurring filter for colour image restoration. Electronics Letters, 1991, 27, 1899.	0.5	5
39	Comments on "A New Algorithm for Border Description of Polarized Light Surface Microscopic Images of Pigmented Skin Lesions. IEEE Transactions on Medical Imaging, 2006, 25, 1655-1656.	5.4	5
40	Polarization diversity for multiband UWB systems. Signal Processing, 2006, 86, 2208-2220.	2.1	5
41	SVD-Based Techniques for Zero-Padded Block Transmission Over Fading Channels. IEEE Transactions on Signal Processing, 2007, 55, 594-604.	3.2	5
42	Comparison of super-resolution methods for quality enhancement of digital biomedical images. , 2014, , .		5
43	Volumetric interpolation of tomographic sequences for accurate 3D reconstruction of anatomical parts. Computer Methods and Programs in Biomedicine, 2020, 194, 105525.	2.6	5
44	Models for ATM video packet transmission. European Transactions on Telecommunications, 1992, 3, 491-497.	1.2	4
45	Audio decoding with frequency and complexity scalability. IET Computer Vision, 2002, 149, 152.	1.3	4
46	Design of cosine-modulated filterbanks for partial spectrum reconstruction. Signal Processing, 2002, 82, 389-405.	2.1	4
47	Despeckling SAR Images in the Undecimated Wavelet Domain: a MAP Approach. , 0, , .		4
48	Comparison of channel estimation algorithms for MIMO downlink LTE systems. , 2013, , .		4
49	Simulation and design of active control systems for acoustic pulse noise. International Journal on Interactive Design and Manufacturing, 2018, 12, 573-584.	1.3	4
50	A Modified Fourier-Mellin Approach For Source Device Identification On Stabilized Videos. , 2020, , .		4
51	<title>Stream cipher system based on chaotic maps</title>. , 2000, , .		3
52	An unsupervised method for quality assessment of despeckling: an evaluation on COSMO-SkyMed data. Proceedings of SPIE, 2011, , .	0.8	3
53	Frame design for 5G multicarrier modulations. , 2015, , .		3
54	Regularized LMS methods for baseline wandering removal in wearable ECG devices. , 2016, , .		3

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55	Mixed â„" 2 and â„" 1 -norm regularization for adaptive detrending with ARMA modeling. Journal of the Franklin Institute, 2018, 355, 1493-1511.	1.9	3
56	Impact of a spatial decorrelation of the noise on the estimation accuracy of temporal changes in the scene from a couple of single-look SAR images. , 2020, , .		3
57	<title>Differential spectral attenuation measurements at microwaves in a LEO-LEO satellites radio occultation geometry: a novel approach for limiting scintillation effects in tropospheric water vapor measurements</title>. , 2004, , .		2
58	SAR Image Despeckling in the Undecimated Contourlet Domain: A Comparison of Lmmse and Map Approaches. , 2008, , .		2
59	Bayesian despeckling of SAR images based on Laplacian-Gaussian modeling of undecimatedwavelet coefficients. , 2011, , .		2
60	Amplitude vs intensity despeckling in the wavelet domain using bayesian estimators. , 2012, , .		2
61	Channel estimation MSE analysis for pilot aided OFDM systems. , 2014, , .		2
62	Time-frequency MSE analysis for pilot aided channel estimation in OFDM systems. , 2014, , .		2
63	Impact of a Spatial Decorrelation of the Noise on the Performance of Despeckling Filters for Polarimetric SAR Data. , 2019, , .		2
64	Coarse-to-fine least squares stereo matching for 3-D reconstruction. Electronics Letters, 1990, 26, 812.	0.5	1
65	A fuzzy complete SAR processing chain for ship detection and velocity estimation. European Transactions on Telecommunications, 1991, 2, 689-693.	1.2	1
66	<title>Multiscale geometric filter based on the wavelet transform</title>. , 1996, , .		1
67	<title>Space-adaptive spectral analysis of hyperspectral imagery</title>. , 2003, 4885, 326.		1
68	End-to-end simulation of a K-band LEO-LEO satellite link for estimating water vapor in the low troposphere. , 2004, , .		1
69	Restoration of images corrupted by multiplicative noise in the nonsubsampled contourlet domain. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	1
70	An evaluation of Bayesian estimators and PDF models for despeckling in the undecimated wavelet domain. Proceedings of SPIE, 2010, , .	0.8	1
71	Multiresolution despeckling of VHR SAR images based on MRF segmentation. , 2010, , .		1
72	Blind whitening of correlated speckle to enforce despeckling of single-look high-resolution SAR images. , 2012, , .		1

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73	An experimental setup for multiresolution despeckling of COSMO-SkyMed image products. Proceedings of SPIE, 2012, , .	0.8	1
74	Benefits of blind speckle decorrelation for InSAR processing. Proceedings of SPIE, 2014, , .	0.8	1
75	Adaptive quadratic regularization for baseline wandering removal in wearable ECG devices. , 2016, , .		1
76	Application of wave field synthesis to active control of highly non-stationary noise. Applied Acoustics, 2018, 131, 220-229.	1.7	1
77	Tomographic Inversion Methods for Retrieving the Tropospheric Water Vapor Content Based on the NDSA Measurement Approach. Remote Sensing, 2022, 14, 414.	1.8	1
78	Multimodal fusion of tomographic sequences of medical images: MRE spatially enhanced by MRI. Computer Methods and Programs in Biomedicine, 2022, 223, 106964.	2.6	1
79	IIR implementation of piecewise polynomial wavelet representation with application to image coding. Signal Processing, 1994, 39, 333-346.	2.1	0
80	<title>Optimal rejection of multiplicative noise via adaptive shrinkage of undecimated wavelet coefficients</title>. , 2001, 4478, 42.		0
81	Heterogeneity-sensitive adaptive speckle reduction in a translation-invariant wavelet domain. , 0, , .		0
82	<title>New trends in despeckling: undecimated-wavelet shrinkage and fuzzy matching-pursuits estimation</title>. , 2002, , .		0
83	A comparative assessment of space-adaptive analyses of hyperspectral imagery. , 0, , .		0
84	Data-aided channel estimation for MC-CDMA systems with transmit diversity in wireless channels. Signal Processing, 2004, 84, 2041-2053.	2.1	0
85	Dimensionality reduction of hyperspectral imagery based on spectral analysis of homogeneous segments: distortion measurements and classification scores. , 2004, 5238, 226.		0
86	Time-Frequency Codes for Multiband UWB With Polarization Diversity. , 2006, , .		0
87	A New Multiresolution Approach to MAP Despeckling of SAR Imagery. , 2006, , .		0
88	Pursuing atmospheric water vapor retrieval through NDSA measurements between two LEO satellites: evaluation of estimation errors in spectral sensitivity measurements. Proceedings of SPIE, 2008, , .	0.8	0
89	Multiresolution map despeckling of COSMO-SkyMed images. , 2012, , .		0
90	Tomographic techniques for the retrieval of tropospheric water vapour fields by using co-rotating LEO satellites. , 2014, , .		0

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91	Retrieval of 2-D tropospheric water vapour fields by using a constellation of co-rotating LEO satellites. , 2014, , .		0
92	Active noise control for pulse signals by wave field synthesis. , 2016, , .		0
93	Power Spectral Ratio for Estimating the Liquid Water Content Between Two Corotating LEO Satellites. , 2021, , .		0
94	Shift-Compensated Volumetric Interpolation of Tomographic Sequences for Accurate 3D Reconstruction. IFMBE Proceedings, 2020, , 312-321.	0.2	0
95	Nonlinear iterative optimization approaches for pulse compression in weather radars. , 2020, , .		0