

Fabrizio Argenti

List of Publications by Year in descending order

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95
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1,518
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37
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docs citations

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times ranked

1179
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Tomographic Inversion Methods for Retrieving the Tropospheric Water Vapor Content Based on the NDSA Measurement Approach. <i>Remote Sensing</i> , 2022, 14, 414. | 1.8 | 1 |
| 2 | Road Surface Anomaly Assessment Using Low-Cost Accelerometers: A Machine Learning Approach. <i>Sensors</i> , 2022, 22, 3788. | 2.1 | 9 |
| 3 | Multimodal fusion of tomographic sequences of medical images: MRE spatially enhanced by MRI. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 223, 106964. | 2.6 | 1 |
| 4 | Radar Pulse Compression Methods Based on Nonlinear and Quadratic Optimization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 3904-3916. | 2.7 | 16 |
| 5 | A Deep Learning Approach to Ancient Egyptian Hieroglyphs Classification. <i>IEEE Access</i> , 2021, 9, 123438-123447. | 2.6 | 22 |
| 6 | Power Spectral Ratio for Estimating the Liquid Water Content Between Two Corotating LEO Satellites. , 2021, , . | | 0 |
| 7 | A Modified Fourier-Mellin Approach For Source Device Identification On Stabilized Videos. , 2020, , . | | 4 |
| 8 | A Survey of Deep Learning-Based Source Image Forensics. <i>Journal of Imaging</i> , 2020, 6, 9. | 1.7 | 41 |
| 9 | Accurate Despeckling and Estimation of Polarimetric Features by Means of a Spatial Decorrelation of the Noise in Complex PolSAR Data. <i>Remote Sensing</i> , 2020, 12, 331. | 1.8 | 14 |
| 10 | Volumetric interpolation of tomographic sequences for accurate 3D reconstruction of anatomical parts. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 194, 105525. | 2.6 | 5 |
| 11 | Shift-Compensated Volumetric Interpolation of Tomographic Sequences for Accurate 3D Reconstruction. <i>IFMBE Proceedings</i> , 2020, , 312-321. | 0.2 | 0 |
| 12 | 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 |
| 13 | Nonlinear iterative optimization approaches for pulse compression in weather radars. , 2020, , . | | 0 |
| 14 | Impact of a Spatial Decorrelation of the Noise on the Performance of Despeckling Filters for Polarimetric SAR Data. , 2019, , . | | 2 |
| 15 | Mixed ℓ_2 and ℓ_1 -norm regularization for adaptive detrending with ARMA modeling. <i>Journal of the Franklin Institute</i> , 2018, 355, 1493-1511. | 1.9 | 3 |
| 16 | Simulation and design of active control systems for acoustic pulse noise. <i>International Journal on Interactive Design and Manufacturing</i> , 2018, 12, 573-584. | 1.3 | 4 |
| 17 | Application of wave field synthesis to active control of highly non-stationary noise. <i>Applied Acoustics</i> , 2018, 131, 220-229. | 1.7 | 1 |
| 18 | Wide-angle and long-range real time pose estimation: A comparison between monocular and stereo vision systems. <i>Journal of Visual Communication and Image Representation</i> , 2017, 48, 159-168. | 1.7 | 22 |

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|----|--|-----|-----------|
| 19 | Active noise control for pulse signals by wave field synthesis. , 2016, , . | | 0 |
| 20 | Regularized LMS methods for baseline wandering removal in wearable ECG devices. , 2016, , . | | 3 |
| 21 | Adaptive quadratic regularization for baseline wandering removal in wearable ECG devices. , 2016, , . | | 1 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Frame design for 5G multicarrier modulations. , 2015, , . | | 3 |
| 26 | Tomographic techniques for the retrieval of tropospheric water vapour fields by using co-rotating LEO satellites. , 2014, , . | | 0 |
| 27 | Retrieval of 2-D tropospheric water vapour fields by using a constellation of co-rotating LEO satellites. , 2014, , . | | 0 |
| 28 | Channel estimation MSE analysis for pilot aided OFDM systems. , 2014, , . | | 2 |
| 29 | Time-frequency MSE analysis for pilot aided channel estimation in OFDM systems. , 2014, , . | | 2 |
| 30 | Blind Speckle Decorrelation for SAR Image Despeckling. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1044-1058. | 2.7 | 35 |
| 31 | Comparison of super-resolution methods for quality enhancement of digital biomedical images. , 2014, , . | | 5 |
| 32 | Benefits of blind speckle decorrelation for InSAR processing. Proceedings of SPIE, 2014, , . | 0.8 | 1 |
| 33 | Comparison of channel estimation algorithms for MIMO downlink LTE systems. , 2013, , . | | 4 |
| 34 | A Tutorial on Speckle Reduction in Synthetic Aperture Radar Images. IEEE Geoscience and Remote Sensing Magazine, 2013, 1, 6-35. | 4.9 | 366 |
| 35 | Amplitude vs intensity Bayesian despeckling in the wavelet domain for SAR images. , 2013, 23, 1353-1362. | | 13 |
| 36 | Blind whitening of correlated speckle to enforce despeckling of single-look high-resolution SAR images. , 2012, , . | | 1 |

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| 37 | Multiresolution map despeckling of COSMO-SkyMed images. , 2012, , . | | 0 |
| 38 | Amplitude vs intensity despeckling in the wavelet domain using bayesian estimators. , 2012, , . | | 2 |
| 39 | An experimental setup for multiresolution despeckling of COSMO-SkyMed image products. Proceedings of SPIE, 2012, , . | 0.8 | 1 |
| 40 | Fast MAP Despeckling Based on Laplacianâ€“Gaussian Modeling of Wavelet Coefficients. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 13-17. | 1.4 | 64 |
| 41 | An unsupervised method for quality assessment of despeckling: an evaluation on COSMO-SkyMed data. Proceedings of SPIE, 2011, , . | 0.8 | 3 |
| 42 | 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 |
| 43 | Bayesian despeckling of SAR images based on Laplacian-Gaussian modeling of undecimated wavelet coefficients. , 2011, , . | | 2 |
| 44 | An evaluation of Bayesian estimators and PDF models for despeckling in the undecimated wavelet domain. Proceedings of SPIE, 2010, , . | 0.8 | 1 |
| 45 | Multiresolution despeckling of VHR SAR images based on MRF segmentation. , 2010, , . | | 1 |
| 46 | LMMSE and MAP estimators for reduction of multiplicative noise in the nonsubsampling contourlet domain. Signal Processing, 2009, 89, 1891-1901. | 2.1 | 19 |
| 47 | 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 |
| 48 | 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 |
| 49 | Power allocation strategy for Cognitive Radio terminals. , 2008, , . | | 14 |
| 50 | Restoration of images corrupted by multiplicative noise in the nonsubsampling contourlet domain. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , . | 1.8 | 1 |
| 51 | SAR Image Despeckling in the Undecimated Contourlet Domain: A Comparison of Lmmse and Map Approaches. , 2008, , . | | 2 |
| 52 | 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 |
| 53 | SVD-Based Techniques for Zero-Padded Block Transmission Over Fading Channels. IEEE Transactions on Signal Processing, 2007, 55, 594-604. | 3.2 | 5 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | 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 |
| 56 | MMSE filtering of generalised signal-dependent noise in spatial and shift-invariant wavelet domains. Signal Processing, 2006, 86, 2056-2066. | 2.1 | 31 |
| 57 | Polarization diversity for multiband UWB systems. Signal Processing, 2006, 86, 2208-2220. | 2.1 | 5 |
| 58 | Time-Frequency Codes for Multiband UWB With Polarization Diversity. , 2006, , . | | 0 |
| 59 | A New Multiresolution Approach to MAP Despeckling of SAR Imagery. , 2006, , . | | 0 |
| 60 | Performance of Filterbank and Wavelet Transceivers in the Presence of Carrier Frequency Offset. IEEE Transactions on Communications, 2005, 53, 1323-1332. | 4.9 | 6 |
| 61 | End-to-end simulation of a K-band LEO-LEO satellite link for estimating water vapor in the low troposphere. , 2004, , . | | 1 |
| 62 | Data-aided channel estimation for MC-CDMA systems with transmit diversity in wireless channels. Signal Processing, 2004, 84, 2041-2053. | 2.1 | 0 |
| 63 | <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 |
| 64 | Dimensionality reduction of hyperspectral imagery based on spectral analysis of homogeneous segments: distortion measurements and classification scores. , 2004, 5238, 226. | | 0 |
| 65 | <title>Space-adaptive spectral analysis of hyperspectral imagery</title>. , 2003, 4885, 326. | | 1 |
| 66 | Speckle Suppression in Ultrasonic Images Based on Undecimated Wavelets. Eurasip Journal on Advances in Signal Processing, 2003, 2003, 1. | 1.0 | 19 |
| 67 | <title>New trends in despeckling: undecimated-wavelet shrinkage and fuzzy matching-pursuits estimation</title>. , 2002, , . | | 0 |
| 68 | Speckle removal from SAR images in the undecimated wavelet domain. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 2363-2374. | 2.7 | 250 |
| 69 | Audio decoding with frequency and complexity scalability. IET Computer Vision, 2002, 149, 152. | 1.3 | 4 |
| 70 | Design of cosine-modulated filterbanks for partial spectrum reconstruction. Signal Processing, 2002, 82, 389-405. | 2.1 | 4 |
| 71 | <title>Optimal rejection of multiplicative noise via adaptive shrinkage of undecimated wavelet coefficients</title>. , 2001, 4478, 42. | | 0 |
| 72 | Identification of spatially filtered stimuli as function of the semantic category. Cognitive Brain Research, 2001, 12, 475-478. | 3.3 | 35 |

| # | ARTICLE | IF | CITATIONS |
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| 73 | <title>Stream cipher system based on chaotic maps</title>. , 2000, , . | | 3 |
| 74 | Filterbanks design for multisensor data fusion. IEEE Signal Processing Letters, 2000, 7, 100-103. | 2.1 | 40 |
| 75 | 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 |
| 76 | Design of biorthogonal M-channel cosine-modulated FIR/IIR filter banks. IEEE Transactions on Signal Processing, 2000, 48, 876-881. | 3.2 | 12 |
| 77 | Design of IIR eigenfilters in the frequency domain. IEEE Transactions on Signal Processing, 1998, 46, 1694-1698. | 3.2 | 18 |
| 78 | 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 |
| 79 | Rational sampling filter banks based on IIR filters. IEEE Transactions on Signal Processing, 1998, 46, 3403-3408. | 3.2 | 8 |
| 80 | Design of IIR linear-phase QMF banks based on complex allpass sections. IEEE Transactions on Signal Processing, 1996, 44, 1262-1267. | 3.2 | 17 |
| 81 | <title>Multiscale geometric filter based on the wavelet transform</title>. , 1996, , . | | 1 |
| 82 | IIR implementation of piecewise polynomial wavelet representation with application to image coding. Signal Processing, 1994, 39, 333-346. | 2.1 | 0 |
| 83 | 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 |
| 84 | Generalised stop-and-wait protocol. Electronics Letters, 1992, 28, 861. | 0.5 | 6 |
| 85 | Models for ATM video packet transmission. European Transactions on Telecommunications, 1992, 3, 491-497. | 1.2 | 4 |
| 86 | IIR implementation of wavelet decomposition for digital signal analysis. Electronics Letters, 1992, 28, 513. | 0.5 | 8 |
| 87 | A fuzzy complete SAR processing chain for ship detection and velocity estimation. European Transactions on Telecommunications, 1991, 2, 689-693. | 1.2 | 1 |
| 88 | Vector median deblurring filter for colour image restoration. Electronics Letters, 1991, 27, 1899. | 0.5 | 5 |
| 89 | Coarse-to-fine least squares stereo matching for 3-D reconstruction. Electronics Letters, 1990, 26, 812. | 0.5 | 1 |
| 90 | Fast calculation of co-occurrence matrix parameters for image segmentation. Electronics Letters, 1990, 26, 23-24. | 0.5 | 16 |

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|----|--|----|-----------|
| 91 | Non-uniform filter banks based on a multi-prototype cosine modulation. , 0, , . | | 7 |
| 92 | Multisensor image fusion by frequency spectrum substitution: subband and multirate approaches for a 3:5 scale ratio case. , 0, , . | | 7 |
| 93 | Heterogeneity-sensitive adaptive speckle reduction in a translation-invariant wavelet domain. , 0, , . | | 0 |
| 94 | A comparative assessment of space-adaptive analyses of hyperspectral imagery. , 0, , . | | 0 |
| 95 | Despeckling SAR Images in the Undecimated Wavelet Domain: a MAP Approach. , 0, , . | | 4 |