# Tiziano Bianchi

## List of Publications by Year
in descending order

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|---|---|---|---|
| 109 papers | 3,385 citations | 361296 20 h-index | 197736 49 g-index |
| 112 all docs | 112 docs citations | 112 times ranked | 2146 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 | Image Forgery Localization via Block-Grained Analysis of JPEG Artifacts. IEEE Transactions on Information Forensics and Security, 2012, 7, 1003-1017. | 4.5 | 342 |
| 3 | Image Forgery Localization via Fine-Grained Analysis of CFA Artifacts. IEEE Transactions on Information Forensics and Security, 2012, 7, 1566-1577. | 4.5 | 336 |
| 4 | Detection of Nonaligned Double JPEG Compression Based on Integer Periodicity Maps. IEEE Transactions on Information Forensics and Security, 2012, 7, 842-848. | 4.5 | 163 |
| 5 | Improved DCT coefficient analysis for forgery localization in JPEG images. , 2011, , . | | 128 |
| 6 | Privacy-preserving fingercode authentication. , 2010, , . | | 125 |
| 7 | On the Implementation of the Discrete Fourier Transform in the Encrypted Domain. IEEE Transactions on Information Forensics and Security, 2009, 4, 86-97. | 4.5 | 122 |
| 8 | Secure Watermarking for Multimedia Content Protection: A Review of its Benefits and Open Issues. IEEE Signal Processing Magazine, 2013, 30, 87-96. | 4.6 | 119 |
| 9 | Analysis of One-Time Random Projections for Privacy Preserving Compressed Sensing. IEEE Transactions on Information Forensics and Security, 2016, 11, 313-327. | 4.5 | 115 |
| 10 | A survey of landmine detection using hyperspectral imaging. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 124, 40-53. | 4.9 | 112 |
| 11 | 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 |
| 12 | 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 |
| 13 | Composite Signal Representation for Fast and Storage-Efficient Processing of Encrypted Signals. IEEE Transactions on Information Forensics and Security, 2010, 5, 180-187. | 4.5 | 87 |
| 14 | A Framework for Decision Fusion in Image Forensics Based on Dempster–Shafer Theory of Evidence. IEEE Transactions on Information Forensics and Security, 2013, 8, 593-607. | 4.5 | 87 |
| 15 | Detection of video double encoding with GOP size estimation. , 2012, , . | | 66 |
| 16 | A video forensic technique for detecting frame deletion and insertion. , 2014, , . | | 65 |
| 17 | Compressed Fingerprint Matching and Camera Identification via Random Projections. IEEE Transactions on Information Forensics and Security, 2015, 10, 1472-1485. | 4.5 | 65 |
| 18 | Fast MAP Despeckling Based on Laplacian–Gaussian Modeling of Wavelet Coefficients. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 13-17. | 1.4 | 64 |

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|---|---------|-----|-----------|
| 19 | A privacy-compliant fingerprint recognition system based on homomorphic encryption and Fingercode templates. , 2010, , . | | 62 |
| 20 | User Authentication via PRNU-Based Physical Unclonable Functions. IEEE Transactions on Information Forensics and Security, 2017, 12, 1941-1956. | 4.5 | 51 |
| 21 | A Provably Secure Anonymous Buyerâ€"Seller Watermarking Protocol. IEEE Transactions on Information Forensics and Security, 2010, 5, 920-931. | 4.5 | 50 |
| 22 | An efficient buyer-seller watermarking protocol based on composite signal representation. , 2009, , . | | 44 |
| 23 | Reverse engineering of double JPEG compression in the presence of image resizing. , 2012, , . | | 38 |
| 24 | On the security of random linear measurements. , 2014, , . | | 38 |
| 25 | Secure Client-Side ST-DM Watermark Embedding. IEEE Transactions on Information Forensics and Security, 2010, 5, 13-26. | 4.5 | 36 |
| 26 | Blind Speckle Decorrelation for SAR Image Despeckling. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1044-1058. | 2.7 | 35 |
| 27 | Detection of non-aligned double JPEG compression with estimation of primary compression parameters. , 2011, , . | | 29 |
| 28 | Large-Scale Image Retrieval Based on Compressed Camera Identification. IEEE Transactions on Multimedia, 2015, 17, 1439-1449. | 5.2 | 29 |
| 29 | Encrypted Domain DCT Based on Homomorphic Cryptosystems. Eurasip Journal on Information Security, 2009, 2009, 1-12. | 2.2 | 24 |
| 30 | Reverse engineering of double compressed images in the presence of contrast enhancement. , 2013, , . | | 20 |
| 31 | Detection and classification of double compressed MP3 audio tracks. , 2013, , . | | 20 |
| 32 | TTP-Free Asymmetric Fingerprinting Based on Client Side Embedding. IEEE Transactions on Information Forensics and Security, 2014, 9, 1557-1568. | 4.5 | 20 |
| 33 | LMMSE and MAP estimators for reduction of multiplicative noise in the nonsubsampled contourlet domain. Signal Processing, 2009, 89, 1891-1901. | 2.1 | 19 |
| 34 | Localization of forgeries in MPEG-2 video through GOP size and DQ analysis. , 2013, , . | | 17 |
| 35 | Analysis of the security of compressed sensing with circulant matrices. , 2014, , . | | 17 |
| 36 | Detection of Coronal Mass Ejections at L1 and Forecast of Their Geoeffectiveness. Astrophysical Journal, 2019, 885, 120. | 1.6 | 17 |

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|---|---------|----|-----------|
| 37 | Power allocation strategy for Cognitive Radio terminals. , 2008, , . | | 14 |
| 38 | Amplitude vs intensity Bayesian despeckling in the wavelet domain for SAR images. , 2013, 23, 1353-1362. | | 13 |
| 39 | Implementing FingerCode-based identity matching in the encrypted domain. , 2010, , . | | 11 |
| 40 | Near optimal detection of quantized signals and application to JPEG forensics. , 2013, , . | | 10 |
| 41 | Anticollusion solutions for asymmetric fingerprinting protocols based on client side embedding. Eurasip Journal on Information Security, 2015, 2015, . | 2.2 | 10 |
| 42 | Unsupervised fusion for forgery localization exploiting background information. , 2015, , . | | 10 |
| 43 | Frequency domain multiâ€user receivers for IEEE 802.15.4a shortâ€range communication network. Transactions on Emerging Telecommunications Technologies, 2013, 24, 545-551. | 2.6 | 9 |
| 44 | Detection and localization of double compression in MP3 audio tracks. Eurasip Journal on Information Security, 2014, 2014, . | 2.2 | 9 |
| 45 | On the fly estimation of the sparsity degree in Compressed Sensing using sparse sensing matrices. , 2015, , . | | 9 |
| 46 | Sparsity estimation from compressive projections via sparse random matrices. Eurasip Journal on Advances in Signal Processing, 2018, 2018, 56. | 1.0 | 9 |
| 47 | Processing in the encrypted domain using a composite signal representation: Pros and cons. , 2009, , . | | 8 |
| 48 | Efficient pointwise and blockwise encrypted operations. , 2008, , . | | 8 |
| 49 | BioMetricNet: Deep Unconstrained Face Verification Through Learning of Metrics Regularized onto Gaussian Distributions. Lecture Notes in Computer Science, 2020, , 133-149. | 1.0 | 8 |
| 50 | Analysis of the security of linear blinding techniques from an information theoretical point of view. , 2011, , . | | 7 |
| 51 | TTP-free asymmetric fingerprinting protocol based on client side embedding. , 2014, , . | | 7 |
| 52 | Energy obfuscation for compressive encryption and processing. , 2017, , . | | 7 |
| 53 | Enhancing Privacy in Remote Data Classification. International Federation for Information Processing, 2008, , 33-46. | 0.4 | 7 |
| 54 | Performance of Filterbank and Wavelet Transceivers in the Presence of Carrier Frequency Offset. IEEE Transactions on Communications, 2005, 53, 1323-1332. | 4.9 | 6 |

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|---|---------|-----|-----------|
| 55 | Very Low Latency Architecture for Earth Observation Satellite Onboard Data Handling, Compression, and Encryption. , 2021, , . | | 6 |
| 56 | Polarization diversity for multiband UWB systems. Signal Processing, 2006, 86, 2208-2220. | 2.1 | 5 |
| 57 | SVD-Based Techniques for Zero-Padded Block Transmission Over Fading Channels. IEEE Transactions on Signal Processing, 2007, 55, 594-604. | 3.2 | 5 |
| 58 | A Forensic Tool for Investigating Image Forgeries. International Journal of Digital Crime and Forensics, 2013, 5, 15-33. | 0.5 | 5 |
| 59 | Authnet: Biometric Authentication Through Adversarial Learning. , 2019, , . | | 5 |
| 60 | Frequency domain detectors for ultra-wideband indoor communications. IEEE Transactions on Wireless Communications, 2006, 5, 2654-2658. | 6.1 | 4 |
| 61 | Implementing the Discrete Fourier Transform in the Encrypted Domain. , 2008, , . | | 4 |
| 62 | Fast Image Clustering Based on Camera Fingerprint Ordering. , 2019, , . | | 4 |
| 63 | Learning mappings onto regularized latent spaces for biometric authentication. , 2019, , . | | 4 |
| 64 | Fast image clustering based on compressed camera fingerprints. Signal Processing: Image Communication, 2021, 91, 116070. | 1.8 | 4 |
| 65 | Frequency domain detectors for ultra-wideband communications in short-range systems. IEEE Transactions on Communications, 2008, 56, 245-253. | 4.9 | 3 |
| 66 | An unsupervised method for quality assessment of despeckling: an evaluation on COSMO-SkyMed data. Proceedings of SPIE, 2011, , . | 0.8 | 3 |
| 67 | Secure compressed sensing over finite fields. , 2014, , . | | 3 |
| 68 | Classification algorithms for landmine detection using hyperspectral imaging. , 2017, , . | | 3 |
| 69 | Reduced Complexity Image Clustering Based on Camera Fingerprints. , 2019, , . | | 3 |
| 70 | SAR Image Despeckling in the Undecimated Contourlet Domain: A Comparison of Lmmse and Map Approaches. , 2008, , . | | 2 |
| 71 | Discrete cosine transform of encrypted images. , 2008, , . | | 2 |
| 72 | Efficient linear filtering of encrypted signals via composite representation. , 2009, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 73 | Pulse Repetition and Cyclic Prefix: Different Transmitting Strategies for Impulse Radio UWB Systems. IEEE Transactions on Signal Processing, 2009, 57, 1526-1537. | 3.2 | 2 |
| 74 | Frequency Domain receivers for IEEE 802.15.4a short range communication systems. , 2009, , . |  | 2 |
| 75 | Bayesian despeckling of SAR images based on Laplacian-Gaussian modeling of undecimatedwavelet coefficients. , 2011, , . |  | 2 |
| 76 | Amplitude vs intensity despeckling in the wavelet domain using bayesian estimators. , 2012, , . |  | 2 |
| 77 | Scale-robust compressive camera fingerprint matching with random projections. , 2015, , . |  | 2 |
| 78 | On the secrecy of compressive cryptosystems under finite-precision representation of sensing matrices. , 2018, , . |  | 2 |
| 79 | Analysis of SparseHash: An efficient embedding of set-similarity via sparse projections. Pattern Recognition Letters, 2019, 128, 93-99. | 2.6 | 2 |
| 80 | Secrecy Analysis of Finite-Precision Compressive Cryptosystems. IEEE Transactions on Information Forensics and Security, 2020, 15, 1-13. | 4.5 | 2 |
| 81 | Landmine detection in hyperspectral images based on pixel intensity. Remote Sensing Applications: Society and Environment, 2021, 21, 100468. | 0.8 | 2 |
| 82 | Spatial Light Modulator-Based Architecture to Implement a Super-Resolved Compressive Instrument for Earth Observation. , 2021, , . |  | 2 |
| 83 | Frequency Domain Detectors in Different Short-Range Ultra-Wideband Communication Scenarios. Eurasip Journal on Wireless Communications and Networking, 2006, 2006, 1. | 1.5 | 1 |
| 84 | On the Comparison Between Pulse Repetition and Cyclic Prefix Communication Techniques in Impulse Radio UWB Systems. , 2006, , . |  | 1 |
| 85 | 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 |
| 86 | An evaluation of Bayesian estimators and PDF models for despeckling in the undecimated wavelet domain. Proceedings of SPIE, 2010, , . | 0.8 | 1 |
| 87 | Multiresolution despeckling of VHR SAR images based on MRF segmentation. , 2010, , . |  | 1 |
| 88 | Blind whitening of correlated speckle to enforce despeckling of single-look high-resolution SAR images. , 2012, , . |  | 1 |
| 89 | An experimental setup for multiresolution despeckling of COSMO-SkyMed image products. Proceedings of SPIE, 2012, , . | 0.8 | 1 |
| 90 | Image counter-forensics based on feature injection. Proceedings of SPIE, 2014, , . | 0.8 | 1 |

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|---|---------|-----|-----------|
| 91 | Image retrieval based on compressed camera sensor fingerprints. , 2015, , . | | 1 |
| 92 | Security Aspects of Compressed Sensing. Lecture Notes in Electrical Engineering, 2016, , 145-162. | 0.3 | 1 |
| 93 | ToothPic: Camera-Based Image Retrieval on Large Scales. IEEE MultiMedia, 2019, 26, 33-43. | 1.5 | 1 |
| 94 | Adversarial Learning of Mappings Onto Regularized Spaces for Biometric Authentication. IEEE Access, 2020, 8, 149316-149331. | 2.6 | 1 |
| 95 | Beyond cross-entropy: learning highly separable feature distributions for robust and accurate classification. , 2021, , . | | 1 |
| 96 | Compressed Sensing as a Cryptosystem. Springer Briefs in Electrical and Computer Engineering, 2019, , 25-71. | 0.3 | 1 |
| 97 | Selective encryption in the CCSDS standard for lossless and near-lossless multispectral and hyperspectral image compression. , 2020, , . | | 1 |
| 98 | Data-aided channel estimation for MC-CDMA systems with transmit diversity in wireless channels. Signal Processing, 2004, 84, 2041-2053. | 2.1 | 0 |
| 99 | Frequency domain detection strategies for short-range ultra-wideband communication systems. , 2005, , . | | 0 |
| 100 | Frequency Domain Multiuser Detectors for Ultra-Wideband Short-Range Communications. , 0, , . | | 0 |
| 101 | Frequency Domain Detectors for Different Data-Rate Short-Range UWB Communications. , 2006, , . | | 0 |
| 102 | SPCp1-09: Comparison of Pulse Repetition and Cyclic Prefix Communication Techniques for Impulse Radio UWB Systems. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , . | 0.0 | 0 |
| 103 | A New Multiresolution Approach to MAP Despeckling of SAR Imagery. , 2006, , . | | 0 |
| 104 | Near-MAP Detectors Based on Probabilistic Data Association for Asynchronous MC-CDMA Systems. , 2008, , . | | 0 |
| 105 | Client side embedding for ST-DM watermarks. , 2009, , . | | 0 |
| 106 | Multiresolution map despeckling of COSMO-SkyMed images. , 2012, , . | | 0 |
| 107 | Toothpic: Who took this picture?. , 2016, , . | | 0 |
| 108 | Compressed Sensing and Security. Springer Briefs in Electrical and Computer Engineering, 2019, , 7-24. | 0.3 | 0 |

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|---|---------|-----|-----------|
| 109 | Privacy-Preserving Embeddings. Springer Briefs in Electrical and Computer Engineering, 2019, , 73-90. | 0.3 | 0 |