

Tiziano Bianchi

List of Publications by Year in descending order

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Version: 2024-02-01

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	Landmine detection in hyperspectral images based on pixel intensity. Remote Sensing Applications: Society and Environment, 2021, 21, 100468.	0.8	2
2	Fast image clustering based on compressed camera fingerprints. Signal Processing: Image Communication, 2021, 91, 116070.	1.8	4
3	Beyond cross-entropy: learning highly separable feature distributions for robust and accurate classification. , 2021, , .		1
4	Very Low Latency Architecture for Earth Observation Satellite Onboard Data Handling, Compression, and Encryption. , 2021, , .		6
5	Spatial Light Modulator-Based Architecture to Implement a Super-Resolved Compressive Instrument for Earth Observation. , 2021, , .		2
6	Secrecy Analysis of Finite-Precision Compressive Cryptosystems. IEEE Transactions on Information Forensics and Security, 2020, 15, 1-13.	4.5	2
7	Adversarial Learning of Mappings Onto Regularized Spaces for Biometric Authentication. IEEE Access, 2020, 8, 149316-149331.	2.6	1
8	BioMetricNet: Deep Unconstrained Face Verification Through Learning of Metrics Regularized onto Gaussian Distributions. Lecture Notes in Computer Science, 2020, , 133-149.	1.0	8
9	Selective encryption in the CCSDS standard for lossless and near-lossless multispectral and hyperspectral image compression. , 2020, , .		1
10	Fast Image Clustering Based on Camera Fingerprint Ordering. , 2019, , .		4
11	Detection of Coronal Mass Ejections at L1 and Forecast of Their Geoeffectiveness. Astrophysical Journal, 2019, 885, 120.	1.6	17
12	Analysis of SparseHash: An efficient embedding of set-similarity via sparse projections. Pattern Recognition Letters, 2019, 128, 93-99.	2.6	2
13	Reduced Complexity Image Clustering Based on Camera Fingerprints. , 2019, , .		3
14	ToothPic: Camera-Based Image Retrieval on Large Scales. IEEE MultiMedia, 2019, 26, 33-43.	1.5	1
15	Authnet: Biometric Authentication Through Adversarial Learning. , 2019, , .		5
16	Learning mappings onto regularized latent spaces for biometric authentication. , 2019, , .		4
17	Compressed Sensing and Security. Springer Briefs in Electrical and Computer Engineering, 2019, , 7-24.	0.3	0
18	Privacy-Preserving Embeddings. Springer Briefs in Electrical and Computer Engineering, 2019, , 73-90.	0.3	0

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19	Compressed Sensing as a Cryptosystem. Springer Briefs in Electrical and Computer Engineering, 2019, , 25-71.	0.3	1
20	On the secrecy of compressive cryptosystems under finite-precision representation of sensing matrices. , 2018, , .		2
21	Sparsity estimation from compressive projections via sparse random matrices. Eurasip Journal on Advances in Signal Processing, 2018, 2018, 56.	1.0	9
22	User Authentication via PRNU-Based Physical Unclonable Functions. IEEE Transactions on Information Forensics and Security, 2017, 12, 1941-1956.	4.5	51
23	A survey of landmine detection using hyperspectral imaging. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 124, 40-53.	4.9	112
24	Classification algorithms for landmine detection using hyperspectral imaging. , 2017, , .		3
25	Energy obfuscation for compressive encryption and processing. , 2017, , .		7
26	Toothpic: Who took this picture?. , 2016, , .		0
27	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
28	Security Aspects of Compressed Sensing. Lecture Notes in Electrical Engineering, 2016, , 145-162.	0.3	1
29	Anticollusion solutions for asymmetric fingerprinting protocols based on client side embedding. Eurasip Journal on Information Security, 2015, 2015, .	2.2	10
30	Compressed Fingerprint Matching and Camera Identification via Random Projections. IEEE Transactions on Information Forensics and Security, 2015, 10, 1472-1485.	4.5	65
31	Large-Scale Image Retrieval Based on Compressed Camera Identification. IEEE Transactions on Multimedia, 2015, 17, 1439-1449.	5.2	29
32	Scale-robust compressive camera fingerprint matching with random projections. , 2015, , .		2
33	On the fly estimation of the sparsity degree in Compressed Sensing using sparse sensing matrices. , 2015, , .		9
34	Image retrieval based on compressed camera sensor fingerprints. , 2015, , .		1
35	Unsupervised fusion for forgery localization exploiting background information. , 2015, , .		10
36	TTP-free asymmetric fingerprinting protocol based on client side embedding. , 2014, , .		7

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37	A video forensic technique for detecting frame deletion and insertion. , 2014, , .		65
38	Detection and localization of double compression in MP3 audio tracks. Eurasip Journal on Information Security, 2014, 2014, .	2.2	9
39	Image counter-forensics based on feature injection. Proceedings of SPIE, 2014, , .	0.8	1
40	Secure compressed sensing over finite fields. , 2014, , .		3
41	On the security of random linear measurements. , 2014, , .		38
42	Blind Speckle Decorrelation for SAR Image Despeckling. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1044-1058.	2.7	35
43	TTP-Free Asymmetric Fingerprinting Based on Client Side Embedding. IEEE Transactions on Information Forensics and Security, 2014, 9, 1557-1568.	4.5	20
44	Analysis of the security of compressed sensing with circulant matrices. , 2014, , .		17
45	A Tutorial on Speckle Reduction in Synthetic Aperture Radar Images. IEEE Geoscience and Remote Sensing Magazine, 2013, 1, 6-35.	4.9	366
46	Near optimal detection of quantized signals and application to JPEG forensics. , 2013, , .		10
47	Localization of forgeries in MPEG-2 video through GOP size and DQ analysis. , 2013, , .		17
48	Amplitude vs intensity Bayesian despeckling in the wavelet domain for SAR images. , 2013, 23, 1353-1362.		13
49	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
50	A Framework for Decision Fusion in Image Forensics Based on Dempsterâ€“Shafer Theory of Evidence. IEEE Transactions on Information Forensics and Security, 2013, 8, 593-607.	4.5	87
51	Reverse engineering of double compressed images in the presence of contrast enhancement. , 2013, , .		20
52	Detection and classification of double compressed MP3 audio tracks. , 2013, , .		20
53	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
54	A Forensic Tool for Investigating Image Forgeries. International Journal of Digital Crime and Forensics, 2013, 5, 15-33.	0.5	5

#	ARTICLE	IF	CITATIONS
55	Blind whitening of correlated speckle to enforce despeckling of single-look high-resolution SAR images. , 2012, , .		1
56	Multiresolution map despeckling of COSMO-SkyMed images. , 2012, , .		0
57	Detection of video double encoding with GOP size estimation. , 2012, , .		66
58	Image Forgery Localization via Fine-Grained Analysis of CFA Artifacts. IEEE Transactions on Information Forensics and Security, 2012, 7, 1566-1577.	4.5	336
59	Amplitude vs intensity despeckling in the wavelet domain using bayesian estimators. , 2012, , .		2
60	Reverse engineering of double JPEG compression in the presence of image resizing. , 2012, , .		38
61	An experimental setup for multiresolution despeckling of COSMO-SkyMed image products. Proceedings of SPIE, 2012, , .	0.8	1
62	Fast MAP Despeckling Based on Laplacian-Gaussian Modeling of Wavelet Coefficients. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 13-17.	1.4	64
63	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
64	Image Forgery Localization via Block-Grained Analysis of JPEG Artifacts. IEEE Transactions on Information Forensics and Security, 2012, 7, 1003-1017.	4.5	342
65	Detection of non-aligned double JPEG compression with estimation of primary compression parameters. , 2011, , .		29
66	An unsupervised method for quality assessment of despeckling: an evaluation on COSMO-SkyMed data. Proceedings of SPIE, 2011, , .	0.8	3
67	Analysis of the security of linear blinding techniques from an information theoretical point of view. , 2011, , .		7
68	Bayesian despeckling of SAR images based on Laplacian-Gaussian modeling of undecimated wavelet coefficients. , 2011, , .		2
69	Improved DCT coefficient analysis for forgery localization in JPEG images. , 2011, , .		128
70	An evaluation of Bayesian estimators and PDF models for despeckling in the undecimated wavelet domain. Proceedings of SPIE, 2010, , .	0.8	1
71	Privacy-preserving fingercode authentication. , 2010, , .		125
72	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

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73	Secure Client-Side ST-DM Watermark Embedding. IEEE Transactions on Information Forensics and Security, 2010, 5, 13-26.	4.5	36
74	A Provably Secure Anonymous Buyer-Seller Watermarking Protocol. IEEE Transactions on Information Forensics and Security, 2010, 5, 920-931.	4.5	50
75	Multiresolution despeckling of VHR SAR images based on MRF segmentation. , 2010, , .		1
76	Implementing FingerCode-based identity matching in the encrypted domain. , 2010, , .		11
77	A privacy-compliant fingerprint recognition system based on homomorphic encryption and Fingercode templates. , 2010, , .		62
78	Efficient linear filtering of encrypted signals via composite representation. , 2009, , .		2
79	An efficient buyer-seller watermarking protocol based on composite signal representation. , 2009, , .		44
80	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
81	LMMSE and MAP estimators for reduction of multiplicative noise in the nonsubsamped contourlet domain. Signal Processing, 2009, 89, 1891-1901.	2.1	19
82	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
83	Client side embedding for ST-DM watermarks. , 2009, , .		0
84	Frequency Domain receivers for IEEE 802.15.4a short range communication systems. , 2009, , .		2
85	Processing in the encrypted domain using a composite signal representation: Pros and cons. , 2009, , .		8
86	Encrypted Domain DCT Based on Homomorphic Cryptosystems. Eurasip Journal on Information Security, 2009, 2009, 1-12.	2.2	24
87	Frequency domain detectors for ultra-wideband communications in short-range systems. IEEE Transactions on Communications, 2008, 56, 245-253.	4.9	3
88	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
89	Power allocation strategy for Cognitive Radio terminals. , 2008, , .		14
90	Restoration of images corrupted by multiplicative noise in the nonsubsamped contourlet domain. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	1

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91	Near-MAP Detectors Based on Probabilistic Data Association for Asynchronous MC-CDMA Systems. , 2008, , .		0
92	SAR Image Despeckling in the Undecimated Contourlet Domain: A Comparison of Lmmse and Map Approaches. , 2008, , .		2
93	Implementing the Discrete Fourier Transform in the Encrypted Domain. , 2008, , .		4
94	Discrete cosine transform of encrypted images. , 2008, , .		2
95	Enhancing Privacy in Remote Data Classification. International Federation for Information Processing, 2008, , 33-46.	0.4	7
96	Efficient pointwise and blockwise encrypted operations. , 2008, , .		8
97	SVD-Based Techniques for Zero-Padded Block Transmission Over Fading Channels. IEEE Transactions on Signal Processing, 2007, 55, 594-604.	3.2	5
98	Frequency Domain Detectors for Different Data-Rate Short-Range UWB Communications. , 2006, , .		0
99	Frequency domain detectors for ultra-wideband indoor communications. IEEE Transactions on Wireless Communications, 2006, 5, 2654-2658.	6.1	4
100	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
101	Frequency Domain Detectors in Different Short-Range Ultra-Wideband Communication Scenarios. Eurasip Journal on Wireless Communications and Networking, 2006, 2006, 1.	1.5	1
102	Polarization diversity for multiband UWB systems. Signal Processing, 2006, 86, 2208-2220.	2.1	5
103	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
104	On the Comparison Between Pulse Repetition and Cyclic Prefix Communication Techniques in Impulse Radio UWB Systems. , 2006, , .		1
105	A New Multiresolution Approach to MAP Despeckling of SAR Imagery. , 2006, , .		0
106	Performance of Filterbank and Wavelet Transceivers in the Presence of Carrier Frequency Offset. IEEE Transactions on Communications, 2005, 53, 1323-1332.	4.9	6
107	Frequency domain detection strategies for short-range ultra-wideband communication systems. , 2005, , .		0
108	Data-aided channel estimation for MC-CDMA systems with transmit diversity in wireless channels. Signal Processing, 2004, 84, 2041-2053.	2.1	0

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109	Frequency Domain Multiuser Detectors for Ultra-Wideband Short-Range Communications. , 0, , .		0