

Javier Galbally

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

4,188
citations

159573

30
h-index

168376

53
g-index

93
all docs

93
docs citations

93
times ranked

2097
citing authors

#	ARTICLE	IF	CITATIONS
1	Face Image Quality Assessment: A Literature Survey. ACM Computing Surveys, 2022, 54, 1-49.	23.0	36
2	SVC-onGoing: Signature verification competition. Pattern Recognition, 2022, 127, 108609.	8.1	28
3	ICDAR 2021 Competition on On-Line Signature Verification. Lecture Notes in Computer Science, 2021, , 723-737.	1.3	4
4	Reversing the irreversible: A survey on inverse biometrics. Computers and Security, 2020, 90, 101700.	6.0	48
5	3D-FLARE: A Touchless Full-3D Fingerprint Recognition System Based on Laser Sensing. IEEE Access, 2020, 8, 145513-145534.	4.2	10
6	A new Foe in biometrics: A narrative review of side-channel attacks. Computers and Security, 2020, 96, 101902.	6.0	10
7	An Introduction to Fingerprint Presentation Attack Detection. Advances in Computer Vision and Pattern Recognition, 2019, , 3-31.	1.3	6
8	Introduction to Iris Presentation Attack Detection. Advances in Computer Vision and Pattern Recognition, 2019, , 135-150.	1.3	7
9	Fingerprint Quality: Mapping NFIQ1 Classes and NFIQ2 Values. , 2019, , .		2
10	FaceQnet: Quality Assessment for Face Recognition based on Deep Learning. , 2019, , .		79
11	A Study of Age and Ageing in Fingerprint Biometrics. IEEE Transactions on Information Forensics and Security, 2019, 14, 1351-1365.	6.9	44
12	Introduction to Face Presentation Attack Detection. Advances in Computer Vision and Pattern Recognition, 2019, , 187-206.	1.3	25
13	Fingerprint growth model for mitigating the ageing effect on children's fingerprints matching. Pattern Recognition, 2019, 88, 614-628.	8.1	11
14	General Framework to Evaluate Unlinkability in Biometric Template Protection Systems. IEEE Transactions on Information Forensics and Security, 2018, 13, 1406-1420.	6.9	142
15	Benchmarking Touchscreen Biometrics for Mobile Authentication. IEEE Transactions on Information Forensics and Security, 2018, 13, 2720-2733.	6.9	70
16	Multi-biometric template protection based on bloom filters. Information Fusion, 2018, 42, 37-50.	19.1	98
17	Fingerprint Quality: a Lifetime Story. , 2018, , .		4
18	Multi-biometric template protection based on Homomorphic Encryption. Pattern Recognition, 2017, 67, 149-163.	8.1	134

#	ARTICLE	IF	CITATIONS
19	Privacy-Preserving Comparison of Variable-Length Data With Application to Biometric Template Protection. IEEE Access, 2017, 5, 8606-8619.	4.2	32
20	A New Multimodal Approach for Password Strength Estimationâ€”Part I: Theory and Algorithms. IEEE Transactions on Information Forensics and Security, 2017, 12, 2829-2844.	6.9	22
21	A New Multimodal Approach for Password Strength Estimationâ€”Part II: Experimental Evaluation. IEEE Transactions on Information Forensics and Security, 2017, 12, 2845-2860.	6.9	9
22	Full 3D touchless fingerprint recognition: Sensor, database and baseline performance. , 2017, , .		10
23	Accuracy evaluation of handwritten signature verification: Rethinking the random-skilled forgeries dichotomy. , 2017, , .		10
24	Exploring a statistical method for touchscreen swipe biometrics. , 2017, , .		3
25	Divide, recombine and conquer: Syntactic patterns-reassembly algorithm applied to password guessing process. , 2017, , .		0
26	Keystroke Biometrics Ongoing Competition. IEEE Access, 2016, 4, 7736-7746.	4.2	51
27	Implementation of Fixed-Length Template Protection Based on Homomorphic Encryption with Application to Signature Biometrics. , 2016, , .		14
28	Three-dimensional and two-and-a-half-dimensional face recognition spoofing using three-dimensional printed models. IET Biometrics, 2016, 5, 83-91.	2.5	36
29	Variable-length template protection based on homomorphic encryption with application to signature biometrics. , 2016, , .		11
30	A review of iris anti-spoofing. , 2016, , .		22
31	Unlinkable and irreversible biometric template protection based on bloom filters. Information Sciences, 2016, 370-371, 18-32.	6.9	84
32	Iris Image Reconstruction from Binary Templates. Advances in Computer Vision and Pattern Recognition, 2016, , 469-496.	1.3	6
33	Graphical Password-Based User Authentication With Free-Form Doodles. IEEE Transactions on Human-Machine Systems, 2016, 46, 607-614.	3.5	38
34	Towards cancelable multi-biometrics based on bloom filters: a case study on feature level fusion of face and iris. , 2015, , .		41
35	A pattern recognition approach based on DTW for automatic transient identification in nuclear power plants. Annals of Nuclear Energy, 2015, 81, 287-300.	1.8	23
36	On-line signature recognition through the combination of real dynamic data and synthetically generated static data. Pattern Recognition, 2015, 48, 2921-2934.	8.1	98

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37	Enhanced on-line signature verification based on skilled forgery detection using Sigma-LogNormal Features. , 2015, , .		25
38	Biografo: An Integrated Tool for Forensic Writer Identification. Lecture Notes in Computer Science, 2015, , 200-211.	1.3	0
39	Face Anti-spoofing Based on General Image Quality Assessment. , 2014, , .		120
40	A probabilistic framework for improved password strength metrics. , 2014, , .		6
41	Biometric Antispoofing Methods: A Survey in Face Recognition. IEEE Access, 2014, 2, 1530-1552.	4.2	306
42	Mobile signature verification: feature robustness and performance comparison. IET Biometrics, 2014, 3, 267-277.	2.5	124
43	Generation of Enhanced Synthetic Off-Line Signatures Based on Real On-Line Data. , 2014, , .		12
44	Protected Facial Biometric Templates Based on Local Gabor Patterns and Adaptive Bloom Filters. , 2014, , .		47
45	Anti-spoofing: Iris Databases. , 2014, , 1-7.		1
46	Children Gender Recognition Under Unconstrained Conditions Based on Contextual Information. , 2014, , .		8
47	Recent developments in the study of rapid human movements with the kinematic theory: Applications to handwriting and signature synthesis. Pattern Recognition Letters, 2014, 35, 225-235.	4.2	71
48	A novel hand reconstruction approach and its application to vulnerability assessment. Information Sciences, 2014, 268, 103-121.	6.9	12
49	Efficient software attack to multimodal biometric systems and its application to face and iris fusion. Pattern Recognition Letters, 2014, 36, 243-253.	4.2	45
50	Image Quality Assessment for Fake Biometric Detection: Application to Iris, Fingerprint, and Face Recognition. IEEE Transactions on Image Processing, 2014, 23, 710-724.	9.8	504
51	Fingerprint Anti-spoofing in Biometric Systems. Advances in Computer Vision and Pattern Recognition, 2014, , 35-64.	1.3	11
52	Anti-spoofing: Fingerprint Databases. , 2014, , 1-9.		0
53	Iris image reconstruction from binary templates: An efficient probabilistic approach based on genetic algorithms. Computer Vision and Image Understanding, 2013, 117, 1512-1525.	4.7	107
54	Securing iris recognition systems against masquerade attacks. , 2013, , .		2

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55	The DooDB Graphical Password Database: Data Analysis and Benchmark Results. IEEE Access, 2013, 1, 596-605.	4.2	36
56	Variations of handwritten signatures with time: A sigma-lognormal analysis. , 2013, , .		5
57	Realistic synthetic off-line signature generation based on synthetic on-line data. , 2013, , .		14
58	Dynamic Signature Verification on Smart Phones. Communications in Computer and Information Science, 2013, , 213-222.	0.5	12
59	Aging in Biometrics: An Experimental Analysis on On-Line Signature. PLoS ONE, 2013, 8, e69897.	2.5	48
60	Iris liveness detection based on quality related features. , 2012, , .		82
61	Face verification put to test: A hill-climbing attack based on the uphill-simplex algorithm. , 2012, , .		13
62	A high performance fingerprint liveness detection method based on quality related features. Future Generation Computer Systems, 2012, 28, 311-321.	7.5	167
63	Synthetic on-line signature generation. Part II: Experimental validation. Pattern Recognition, 2012, 45, 2622-2632.	8.1	48
64	Synthetic on-line signature generation. Part I: Methodology and algorithms. Pattern Recognition, 2012, 45, 2610-2621.	8.1	102
65	On the Vulnerability of Iris-Based Systems to a Software Attack Based on a Genetic Algorithm. Lecture Notes in Computer Science, 2012, , 114-121.	1.3	7
66	Quality Analysis of Dynamic Signature Based on the Sigma-Lognormal Model. , 2011, , .		10
67	Predicting iris vulnerability to direct attacks based on quality related features. , 2011, , .		3
68	Evaluation of direct attacks to fingerprint verification systems. Telecommunication Systems, 2011, 47, 243-254.	2.5	89
69	An evaluation of indirect attacks and countermeasures in fingerprint verification systems. Pattern Recognition Letters, 2011, 32, 1643-1651.	4.2	97
70	Hill-Climbing Attack Based on the Uphill Simplex Algorithm and Its Application to Signature Verification. Lecture Notes in Computer Science, 2011, , 83-94.	1.3	7
71	Exploiting Character Class Information in Forensic Writer Identification. Lecture Notes in Computer Science, 2011, , 31-42.	1.3	0
72	BiosecurID: a multimodal biometric database. Pattern Analysis and Applications, 2010, 13, 235-246.	4.6	127

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73	On the vulnerability of face verification systems to hill-climbing attacks. Pattern Recognition, 2010, 43, 1027-1038.	8.1	116
74	An evaluation of direct attacks using fake fingers generated from ISO templates. Pattern Recognition Letters, 2010, 31, 725-732.	4.2	106
75	The Multiscenario Multienvironment BioSecure Multimodal Database (BMDB). IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1097-1111.	13.9	176
76	Kinematical Analysis of Synthetic Dynamic Signatures Using the Sigma-Lognormal Model. , 2010, , .		2
77	Robustness of Signature Verification Systems to Imitators with Increasing Skills. , 2009, , .		10
78	Improving the Enrollment in Dynamic Signature Verification with Synthetic Samples. , 2009, , .		24
79	Hill-climbing attack to an Eigenface-based face verification system. , 2009, , .		18
80	Fingerprint liveness detection based on quality measures. , 2009, , .		24
81	Evaluation of Brute-force Attack to Dynamic Signature Verification Using Synthetic Samples. , 2009, , .		3
82	Synthetic generation of handwritten signatures based on spectral analysis. , 2009, , .		8
83	Vulnerability Assessment of Fingerprint Matching Based on Time Analysis. Lecture Notes in Computer Science, 2009, , 285-292.	1.3	2
84	Performance and robustness: A trade-off in dynamic signature verification. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	9
85	Fake fingertip generation from a minutiae template. , 2008, , .		15
86	Towards mobile authentication using dynamic signature verification: Useful features and performance evaluation. , 2008, , .		24
87	Direct Attacks Using Fake Images in Iris Verification. Lecture Notes in Computer Science, 2008, , 181-190.	1.3	64
88	Bayesian Hill-Climbing Attack and Its Application to Signature Verification. Lecture Notes in Computer Science, 2007, , 386-395.	1.3	10
89	Classification of handwritten signatures based on name legibility. , 2007, , .		3
90	Feature Selection Based on Genetic Algorithms for On-Line Signature Verification. , 2007, , .		27

#	ARTICLE	IF	CITATIONS
91	Biometric Hashing Based on Genetic Selection and Its Application to On-Line Signatures. Lecture Notes in Computer Science, 2007, , 1134-1143.	1.3	7