Javier Ortega-Garcia

List of Publications by Year
in descending order

178 papers	7,338 citations	81434 41 h-index	81351 76 g-index
185 all docs	185 docs citations	185 times ranked	3302 citing authors

#	Article	IF	Citations
1	An Introduction to Digital Face Manipulation. Advances in Computer Vision and Pattern Recognition, 2022, , 3-26.	0.9	9
2	Future Trends in Digital Face Manipulation and Detection. Advances in Computer Vision and Pattern Recognition, 2022, , 463-482.	0.9	3
3	SVC-onGoing: Signature verification competition. Pattern Recognition, 2022, 127, 108609.	5.1	28
4	DeepSign: Deep On-Line Signature Verification. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2021, 3, 229-239.	3.8	44
5	ICDAR 2021 Competition on On-Line Signature Verification. Lecture Notes in Computer Science, 2021, , 723-737.	1.0	4
6	Biometric Presentation Attack Detection: Beyond the Visible Spectrum. IEEE Transactions on Information Forensics and Security, 2020, 15, 1261-1275.	4.5	65
7	Keystroke Biometrics in Response to Fake News Propagation in a Global Pandemic. , 2020, , .		8
8	Deepfakes and beyond: A Survey of face manipulation and fake detection. Information Fusion, 2020, 64, 131-148.	11.7	423
9	BioTouchPass2: Touchscreen Password Biometrics Using Time-Aligned Recurrent Neural Networks. IEEE Transactions on Information Forensics and Security, 2020, 15, 2616-2628.	4.5	34
10	Exploiting complexity in pen- and touch-based signature biometrics. International Journal on Document Analysis and Recognition, 2020, 23, 129-141.	2.7	9
11	Presentation Attacks in Signature Biometrics: Types and Introduction to Attack Detection. Advances in Computer Vision and Pattern Recognition, 2019, , 439-453.	0.9	12
12	MobileTouchDB: Mobile Touch Character Database in the Wild and Biometric Benchmark. , 2019, , .		2
13	DeepSignCX: Signature Complexity Detection using Recurrent Neural Networks. , 2019, , .		10
14	Do You Need More Data? The DeepSignDB On-Line Handwritten Signature Biometric Database. , 2019, , .		7
15	Reducing the template ageing effect in on‐line signature biometrics. IET Biometrics, 2019, 8, 422-430.	1.6	20
16	Exploring Recurrent Neural Networks for On-Line Handwritten Signature Biometrics. IEEE Access, 2018, 6, 5128-5138.	2.6	127
17	Incorporating Touch Biometrics to Mobile One-Time Passwords: Exploration of Digits. , 2018, , .		7
18	Towards Fingerprint Presentation Attack Detection Based on Convolutional Neural Networks and Short Wave Infrared Imaging. , 2018, , .		21

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19	Trends and Controversies. IEEE Intelligent Systems, 2018, 33, 41-67.	4.0	9
20	Complexity-Based Biometric Signature Verification. , 2017, , .		3
21	Biometric Signature Verification Using Recurrent Neural Networks. , 2017, , .		20
22	Humans in the loop: Study of semi-automatic signature recognition based on attributes. , 2017, , .		1
23	Exploring automatic extraction of body-based soft biometrics. , 2017, , .		7
24	Benchmarking desktop and mobile handwriting across COTS devices: The e-BioSign biometric database. PLoS ONE, 2017, 12, e0176792.	1.1	48
25	Dynamic Signatures as Forensic Evidence: A New Expert Tool Including Population Statistics. Advances in Computer Vision and Pattern Recognition, 2017, , 329-349.	0.9	0
26	Keystroke Biometrics Ongoing Competition. IEEE Access, 2016, 4, 7736-7746.	2.6	51
27	KBOC: Keystroke biometrics OnGoing competition. , 2016, , .		6
28	On the evaluation of human ratings for signature recognition. , 2016, , .		6
29	Dealing with occlusions in face recognition by region-based fusion. , 2016, , .		4
30	Score normalization for keystroke dynamics biometrics. , 2015, , .		8
31	One-handed Keystroke Biometric Identification Competition. , 2015, , .		11
32	Combination of Face Regions in Forensic Scenarios. Journal of Forensic Sciences, 2015, 60, 1046-1051.	0.9	8
33	Pre‒registration of latent fingerprints based on orientation field. IET Biometrics, 2015, 4, 42-52.	1.6	20
34	Preprocessing and Feature Selection for Improved Sensor Interoperability in Online Biometric Signature Verification. IEEE Access, 2015, 3, 478-489.	2.6	93
35	Increasing the robustness of biometric templates for dynamic signature biometric systems. , 2015, , .		7
36	Feature exploration for biometric recognition using millimetre wave body images. Eurasip Journal on Image and Video Processing, 2015, 2015, .	1.7	9

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37	Pose Variability Compensation Using Projective Transformation for Forensic Face Recognition. , 2015, , .		1
38	Keystroke dynamics recognition based on personal data: A comparative experimental evaluation implementing reproducible research. , 2015, , .		19
39	Update strategies for HMM-based dynamic signature biometric systems. , 2015, , .		14
40	E-biosign: stylus- and finger-input multi-device database for dynamic signature recognition. , 2015, , .		14
41	Feature-based dynamic signature verification under forensic scenarios. , 2015, , .		19
42	Facial soft biometric features for forensic face recognition. Forensic Science International, 2015, 257, 271-284.	1.3	59
43	Optimal feature selection and inter-operability compensation for on-line biometric signature authentication. , 2015, , .		4
44	Enhanced on-line signature verification based on skilled forgery detection using Sigma-LogNormal Features. , 2015, , .		25
45	Synthesis of large scale hand-shape databases for biometric applications. Pattern Recognition Letters, 2015, 68, 183-189.	2.6	5
46	Towards Predicting Good Users for Biometric Recognition Based on Keystroke Dynamics. Lecture Notes in Computer Science, 2015, , 711-724.	1.0	15
47	Biografo: An Integrated Tool for Forensic Writer Identification. Lecture Notes in Computer Science, 2015, , 200-211.	1.0	0
48	Pre-registration for Improved Latent Fingerprint Identification. , 2014, , .		6
49	Comparison of Body Shape Descriptors for Biometric Recognition Using MMW Images. , 2014, , .		4
50	A novel hand reconstruction approach and its application to vulnerability assessment. Information Sciences, 2014, 268, 103-121.	4.0	12
51	Partial fingerprint registration for forensics using minutiae-generated orientation fields. , 2014, , .		7
52	Fingerprint Anti-spoofing in Biometric Systems. Advances in Computer Vision and Pattern Recognition, 2014, , 35-64.	0.9	11
53	Comparative Analysis of the Variability of Facial Landmarks for Forensics Using CCTV Images. Lecture Notes in Computer Science, 2014, , 409-418.	1.0	2
54	Iris image reconstruction from binary templates: An efficient probabilistic approach based on genetic algorithms. Computer Vision and Image Understanding, 2013, 117, 1512-1525.	3.0	107

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55	Securing iris recognition systems against masquerade attacks. , 2013, , .		2
56	Understanding the discrimination power of facial regions in forensic casework. , 2013, , .		4
57	A novel approach of gait recognition through fusion with footstep information. , 2013, , .		16
58	Comparative Analysis and Fusion of Spatiotemporal Information for Footstep Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 823-834.	9.7	79
59	Variations of handwritten signatures with time: A sigma-lognormal analysis. , 2013, , .		5
60	Fusion of Facial Regions Using Color Information in a Forensic Scenario. Lecture Notes in Computer Science, 2013, , 399-406.	1.0	3
61	Iris liveness detection based on quality related features. , 2012, , .		82
62	Fusion of footsteps and face biometrics on an unsupervised and uncontrolled environment. , 2012, , .		1
63	Face verification put to test: A hill-climbing attack based on the uphill-simplex algorithm. , 2012, , .		13
64	A high performance fingerprint liveness detection method based on quality related features. Future Generation Computer Systems, 2012, 28, 311-321.	4.9	167
65	BioSecure signature evaluation campaign (BSEC'2009): Evaluating online signature algorithms depending on the quality of signatures. Pattern Recognition, 2012, 45, 993-1003.	5.1	122
66	Synthetic on-line signature generation. Part II: Experimental validation. Pattern Recognition, 2012, 45, 2622-2632.	5.1	48
67	Synthetic on-line signature generation. Part I: Methodology and algorithms. Pattern Recognition, 2012, 45, 2610-2621.	5.1	102
68	Variability Compensation Using NAP for Unconstrained Face Recognition. Advances in Intelligent and Soft Computing, 2012, , 129-139.	0.2	3
69	Predicting iris vulnerability to direct attacks based on quality related features. , 2011, , .		3
70	Quality Measures in Biometric Systems. IEEE Security and Privacy, 2011, , .	1.5	34
71	Analysis of spatial domain information for footstep recognition. IET Computer Vision, 2011, 5, 380.	1.3	18
72	An evaluation of indirect attacks and countermeasures in fingerprint verification systems. Pattern Recognition Letters, 2011, 32, 1643-1651.	2.6	97

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73	Hill-Climbing Attack Based on the Uphill Simplex Algorithm and Its Application to Signature Verification. Lecture Notes in Computer Science, 2011, , 83-94.	1.0	7
74	Exploiting Character Class Information in Forensic Writer Identification. Lecture Notes in Computer Science, 2011, , 31-42.	1.0	0
75	BiosecurID: a multimodal biometric database. Pattern Analysis and Applications, 2010, 13, 235-246.	3.1	127
76	On the vulnerability of face verification systems to hill-climbing attacks. Pattern Recognition, 2010, 43, 1027-1038.	5.1	116
77	An evaluation of direct attacks using fake fingers generated from ISO templates. Pattern Recognition Letters, 2010, 31, 725-732.	2.6	106
78	Towards a Better Understanding of the Performance of Latent Fingerprint Recognition in Realistic Forensic Conditions. , 2010, , .		6
79	Forensic Writer Identification Using Allographic Features. , 2010, , .		11
80	The Multiscenario Multienvironment BioSecure Multimodal Database (BMDB). IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1097-1111.	9.7	176
81	Cancelable Templates for Sequence-Based Biometrics with Application to On-line Signature Recognition. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 525-538.	3.4	125
82	Kinematical Analysis of Synthetic Dynamic Signatures Using the Sigma-Lognormal Model. , 2010, , .		2
83	DooDB: A Graphical Password Database Containing Doodles and Pseudo-Signatures. , 2010, , .		5
84	Scenario-based score fusion for face recognition at a distance. , 2010, , .		11
85	Detecting Invalid Samples in Hand Geometry Verification through Geometric Measurements. , 2010, , .		4
86	Face Recognition at a Distance: Scenario Analysis and Applications. Advances in Intelligent and Soft Computing, 2010, , 341-348.	0.2	5
87	Analysis of Time Domain Information for Footstep Recognition. Lecture Notes in Computer Science, 2010, , 489-498.	1.0	11
88	Acquisition Scenario Analysis for Face Recognition at a Distance. Lecture Notes in Computer Science, 2010, , 461-468.	1.0	3
89	Fusion of static image and dynamic information for signature verification. , 2009, , .		11
90	Robustness of Signature Verification Systems to Imitators with Increasing Skills. , 2009, , .		10

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91	Improving the Enrollment in Dynamic Signature Verfication with Synthetic Samples. , 2009, , .		24
92	Impact of time variability in off-line writer identification and verification. , 2009, , .		4
93	Hill-climbing attack to an Eigenface-based face verification system. , 2009, , .		18
94	Iris recognition based on SIFT features. , 2009, , .		62
95	Fingerprint liveness detection based on quality measures. , 2009, , .		24
96	Evaluation of Brute-force Attack to Dynamic Signature Verification Using Synthetic Samples. , 2009, , .		3
97	Benchmarking Quality-Dependent and Cost-Sensitive Score-Level Multimodal Biometric Fusion Algorithms. IEEE Transactions on Information Forensics and Security, 2009, 4, 849-866.	4.5	77
98	Synthetic generation of handwritten signatures based on spectral analysis. , 2009, , .		8
99	Fusion, User-Specific. , 2009, , 621-624.		2
100	Fingerprint Recognition. , 2009, , 51-88.		18
101	Online Handwritten Signature Verification. , 2009, , 125-165.		8
102	Biometrics beyond the Visible Spectrum: Imaging Technologies and Applications. Lecture Notes in Computer Science, 2009, , 154-161.	1.0	12
103	Vulnerability Assessment of Fingerprint Matching Based on Time Analysis. Lecture Notes in Computer Science, 2009, , 285-292.	1.0	2
104	Fingerprint Image-Quality Estimation and its Application to Multialgorithm Verification. IEEE Transactions on Information Forensics and Security, 2008, 3, 331-338.	4.5	58
105	Voice Biometrics. , 2008, , 151-170.		12
106	Cancelable Biometrics for HMM-based Signature Recognition. , 2008, , .		41
107	On the Effects of Time Variability in Iris Recognition. , 2008, , .		27
108	Dynamic signature verification with template protection using helper data. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	12

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109	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
110	Performance of fingerprint quality measures depending on sensor technology. Journal of Electronic Imaging, 2008, 17, 011008.	0.5	15
111	Template protection for HMM-based on-line signature authentication. , 2008, , .		63
112	Towards mobile authentication using dynamic signature verification: Useful features and performance evaluation. , 2008, , .		24
113	Dealing with sensor interoperability in multi-biometrics: the UPM experience at the Biosecure Multimodal Evaluation 2007. Proceedings of SPIE, 2008, , .	0.8	30
114	On-Line Signature Verification. , 2008, , 189-209.		55
115	Function-Based Online Signature Verification. , 2008, , 225-245.		5
116	Direct Attacks Using Fake Images in Iris Verification. Lecture Notes in Computer Science, 2008, , 181-190.	1.0	64
117	Bayesian Hill-Climbing Attack and Its Application to Signature Verification. Lecture Notes in Computer Science, 2007, , 386-395.	1.0	10
118	Automatic Measures for Predicting Performance in Off-Line Signature. Proceedings International Conference on Image Processing, 2007, , .	0.0	32
119	On the Applicability of Off-Line Signatures to the Fuzzy Vault Construction. Proc Int Conf Doc Anal Recognit, 2007, , .	0.0	12
120	Classification of handwritten signatures based on name legibility. , 2007, , .		3
121	On The Effects of Sampling Rate and Interpolation in HMM-Based Dynamic Signature Verification. Proc Int Conf Doc Anal Recognit, 2007, , .	0.0	14
122	Speaker Recognition The A TVS-UAM System at NIST SRE 05. IEEE Aerospace and Electronic Systems Magazine, 2007, 22, 15-21.	2.3	4
123	Secure access system using signature verification over tablet PC. IEEE Aerospace and Electronic Systems Magazine, 2007, 22, 3-8.	2.3	9
124	Comparison of fingerprint quality measures using an optical and a capacitive sensor. , 2007, , .		14
125	Universal Background Models for Dynamic Signature Verification. , 2007, , .		13
126	Impact of Signature Legibility and Signature Type in Off-Line Signature Verification. , 2007, , .		21

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127	Feature Selection Based on Genetic Algorithms for On-Line Signature Verification. , 2007, , .		27
128	Speaker verification using speaker- and test-dependent fast score normalization. Pattern Recognition Letters, 2007, 28, 90-98.	2.6	29
129	Biosec baseline corpus: A multimodal biometric database. Pattern Recognition, 2007, 40, 1389-1392.	5.1	129
130	Emulating DNA: Rigorous Quantification of Evidential Weight in Transparent and Testable Forensic Speaker Recognition. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 2104-2115.	3.8	112
131	A Comparative Study of Fingerprint Image-Quality Estimation Methods. IEEE Transactions on Information Forensics and Security, 2007, 2, 734-743.	4.5	169
132	Biosecure reference systems for on-line signature verification: A study of complementarity. Annales Des Telecommunications/Annals of Telecommunications, 2007, 62, 36-61.	1.6	14
133	HMM-based on-line signature verification: Feature extraction and signature modeling. Pattern Recognition Letters, 2007, 28, 2325-2334.	2.6	322
134	Biometric Hashing Based on Genetic Selection and Its Application to On-Line Signatures. Lecture Notes in Computer Science, 2007, , 1134-1143.	1.0	7
135	Hill-Climbing and Brute-Force Attacks on Biometric Systems: A Case Study in Match-on-Card Fingerprint Verification. , 2006, , .		45
136	Exploring PPRLM performance for NIST 2005 Language Recognition Evaluation. , 2006, , .		2
137	On the Vulnerability of Fingerprint Verification Systems to Fake Fingerprints Attacks. , 2006, , .		38
138	Likelihood Ratio Calibration in a Transparent and Testable Forensic Speaker Recognition Framework. , 2006, , .		23
139	Using quality measures for multilevel speaker recognition. Computer Speech and Language, 2006, 20, 192-209.	2.9	16
140	Robust estimation, interpretation and assessment of likelihood ratios in forensic speaker recognition. Computer Speech and Language, 2006, 20, 331-355.	2.9	97
141	Cryptographic key generation using handwritten signature. , 2006, 6202, 225.		48
142	Multimodal biometric databases: an overview. IEEE Aerospace and Electronic Systems Magazine, 2006, 21, 29-37.	2.3	26
143	Suspect-Adapted MAP Estimation of Within-Source Distributions in Generative Likelihood Ratio Estimation. , 2006, , .		7
144	Adapted user-dependent multimodal biometric authentication exploiting general information. Pattern Recognition Letters, 2005, 26, 2628-2639.	2.6	44

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145	Bayesian analysis of fingerprint, face and signature evidences with automatic biometric systems. Forensic Science International, 2005, 155, 126-140.	1.3	74
146	Bayesian adaptation for user-dependent multimodal biometric authentication. Pattern Recognition, 2005, 38, 1317-1319.	5.1	42
147	Fusion of Local and Regional Approaches for On-Line Signature Verification. Lecture Notes in Computer Science, 2005, , 188-196.	1.0	46
148	Discriminative multimodal biometric authentication based on quality measures. Pattern Recognition, 2005, 38, 777-779.	5.1	134
149	An On-Line Signature Verification System Based on Fusion of Local and Global Information. Lecture Notes in Computer Science, 2005, , 523-532.	1.0	179
150	On-line signature verification using Tablet PC. Proc Int Symp Image Signal Process Anal, 2005, , .	0.0	15
151	Speaker Verification Using Adapted User-Dependent Multilevel Fusion. Lecture Notes in Computer Science, 2005, , 356-365.	1.0	3
152	Target Dependent Score Normalization Techniques and Their Application to Signature Verification. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2005, 35, 418-425.	3.3	105
153	On the effects of image quality degradation on minutiae- and ridge-based automatic fingerprint recognition. , 2005, , .		22
154	An enhanced Gabor filter-based segmentation algorithm for fingerprint recognition systems. Proc Int Symp Image Signal Process Anal, 2005, , .	0.0	30
155	Combining Biometric Evidence for Person Authentication. Lecture Notes in Computer Science, 2005, , 1-18.	1.0	9
156	Combining Multiple Matchers for Fingerprint Verification: A Case Study in FVC2004. Lecture Notes in Computer Science, 2005, , 1035-1042.	1.0	19
157	Sensor Interoperability and Fusion in Signature Verification: A Case Study Using Tablet PC. Lecture Notes in Computer Science, 2005, , 180-187.	1.0	21
158	An Off-line Signature Verification System Based on Fusion of Local and Global Information. Lecture Notes in Computer Science, 2004, , 295-306.	1.0	58
159	<title>Kernel-based multimodal biometric verification using quality signals</title>. , 2004, 5404, 544.		32
160	A Tutorial on Text-Independent Speaker Verification. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.0	538
161	Authentication gets personal with biometrics. IEEE Signal Processing Magazine, 2004, 21, 50-62.	4.6	109
162	Image quality and position variability assessment in minutiae-based fingerprint verification. IET Computer Vision, 2003, 150, 402.	1.3	36

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163	MCYT baseline corpus: a bimodal biometric database. IET Computer Vision, 2003, 150, 395.	1.3	549
164	Support vector machine fusion of idiolectal and acoustic speaker information in Spanish conversational speech. , 2003, , .		9
165	Fusion strategies in multimodal biometric verification. , 2003, , .		38
166	Extracting the Most Discriminant Subset from a Pool of Candidates to Optimize Discriminant Classifier Training. Lecture Notes in Computer Science, 2003, , 640-645.	1.0	5
167	From Biometrics Technology to Applications Regarding Face, Voice, Signature and Fingerprint Recognition Systems. , 2002, , 289-337.		12
168	Forensic Identification Reporting Using Automatic Biometric Systems. , 2002, , 169-185.		5
169	AHUMADA: A large speech corpus in Spanish for speaker characterization and identification. Speech Communication, 2000, 31, 255-264.	1.6	81
170	Context modeling using RNN for keyword detection. , 1993, , .		1
171	Overview of speech enhancement techniques for automatic speaker recognition. , 0, , .		41
172	Increasing robustness in GMM speaker recognition systems for noisy and reverberant speech with low complexity microphone arrays. , 0, , .		19
173	Biometric identification through speaker verification over telephone lines. , 0, , .		4
174	Speech variability in automatic speaker recognition systems for forensic purposes. , 0, , .		1
175	Comparison of feature extraction techniques in automatic face recognition systems for security applications. , 0, , .		10
176	Minutiae extraction scheme for fingerprint recognition systems. , 0, , .		17
177	Multimodal biometric authentication using quality signals in mobile communications. , 0, , .		34
178	Automatic Signature Verification on Handheld Devices. , 0, , 321-338.		0