

Julian Fierrez

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

231
papers

6,060
citations

42
h-index

71
g-index

249
ext. papers

7,534
ext. citations

4
avg, IF

6.25
L-index

#	Paper	IF	Citations
231	An Introduction to Digital Face Manipulation. <i>Advances in Computer Vision and Pattern Recognition</i> , 2022 , 3-26	1.1	1
230	Future Trends in Digital Face Manipulation and Detection. <i>Advances in Computer Vision and Pattern Recognition</i> , 2022 , 463-482	1.1	1
229	DeepFakes Detection Based on Heart Rate Estimation: Single- and Multi-frame. <i>Advances in Computer Vision and Pattern Recognition</i> , 2022 , 255-273	1.1	8
228	DeepFakes detection across generations: Analysis of facial regions, fusion, and performance evaluation. <i>Engineering Applications of Artificial Intelligence</i> , 2022 , 110, 104673	7.2	3
227	Fusing CNNs and statistical indicators to improve image classification. <i>Information Fusion</i> , 2022 , 79, 174-187	1.7	4
226	SetMargin loss applied to deep keystroke biometrics with circle packing interpretation. <i>Pattern Recognition</i> , 2022 , 122, 108283	7.7	4
225	E2F-GAN: Eyes-to-Face Inpainting via Edge-Aware Coarse-to-Fine GANs. <i>IEEE Access</i> , 2022 , 10, 32406-32417	3.7	0
224	FaceQvec: Vector Quality Assessment for Face Biometrics based on ISO Compliance 2022 ,		1
223	GAN Fingerprints in Face Image Synthesis. <i>Advances in Computer Vision and Pattern Recognition</i> , 2022 , 175-204	1.1	
222	Differential Privacy Preservation in Robust Continual Learning. <i>IEEE Access</i> , 2022 , 10, 24273-24287	3.5	0
221	SELM: Siamese extreme learning machine with application to face biometrics.. <i>Neural Computing and Applications</i> , 2022 , 1-15	4.8	
220	Sensitive loss: Improving accuracy and fairness of face representations with discrimination-aware deep learning. <i>Artificial Intelligence</i> , 2022 , 305, 103682	3.6	5
219	BeCAPTCHA-Mouse: Synthetic mouse trajectories and improved bot detection. <i>Pattern Recognition</i> , 2022 , 127, 108643	7.7	2
218	Cross-sensor periocular biometrics in a global pandemic: Comparative benchmark and novel multialgorithmic approach. <i>Information Fusion</i> , 2022 , 83-84, 110-130	16.7	2
217	SVC-onGoing: Signature verification competition. <i>Pattern Recognition</i> , 2022 , 127, 108609	7.7	5
216	Symbolic AI for XAI: Evaluating LFIT Inductive Programming for Explaining Biases in Machine Learning. <i>Computers</i> , 2021 , 10, 154	1.9	1
215	. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , 2021 , 3, 229-239	4.3	18

214	Impact of Minutiae Errors in Latent Fingerprint Identification: Assessment and Prediction. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4187	2.6	2
213	2021 ,		2
212	BeCAPTCHA: Behavioral bot detection using touchscreen and mobile sensors benchmarked on HuMldb. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 98, 104058	7.2	6
211	SensitiveNets: Learning Agnostic Representations with Application to Face Images. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 2158-2164	13.3	27
210	A Comprehensive Study on Face Recognition Biases Beyond Demographics. <i>IEEE Transactions on Technology and Society</i> , 2021 , 1-1	5.2	10
209	DeepFakes Evolution: Analysis of Facial Regions and Fake Detection Performance. <i>Lecture Notes in Computer Science</i> , 2021 , 442-456	0.9	18
208	. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , 2021 , 1-1	4.3	3
207	InsideBias: Measuring Bias in Deep Networks and Application to Face Gender Biometrics 2021 ,		9
206	Learning Emotional-Blinded Face Representations 2021 ,		2
205	Symbolic AI for XAI: Evaluating LFIT Inductive Programming for Fair and Explainable Automatic Recruitment 2021 ,		5
204	ICDAR 2021 Competition on On-Line Signature Verification. <i>Lecture Notes in Computer Science</i> , 2021 , 723-737	0.9	1
203	FaceQgen: Semi-Supervised Deep Learning for Face Image Quality Assessment 2021 ,		2
202	Deepfakes and beyond: A Survey of face manipulation and fake detection. <i>Information Fusion</i> , 2020 , 64, 131-148	16.7	169
201	. <i>IEEE Transactions on Information Forensics and Security</i> , 2020 , 15, 2616-2628	8	23
200	Exploiting complexity in pen- and touch-based signature biometrics. <i>International Journal on Document Analysis and Recognition</i> , 2020 , 23, 129-141	3.8	7
199	Modeling the Complexity of Signature and Touch-Screen Biometrics using the Lognormality Principle. <i>Series in Machine Perception and Artificial Intelligence</i> , 2020 , 65-86	0.3	2
198	mEBAL: A Multimodal Database for Eye Blink Detection and Attention Level Estimation 2020 ,		5
197	Quickest Multiple User Active Authentication. <i>Advanced Sciences and Technologies for Security Applications</i> , 2020 , 179-196	0.6	1

196	FairCVtest Demo 2020 ,		1
195	TypeNet: Scaling up Keystroke Biometrics 2020 ,		4
194	Mobile Active Authentication based on Multiple Biometric and Behavioral Patterns. <i>Advanced Sciences and Technologies for Security Applications</i> , 2020 , 161-177	0.6	1
193	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2020 , 14, 1038-1048	7.5	35
192	Smartphone Sensors for Modeling Human-Computer Interaction: General Outlook and Research Datasets for User Authentication 2020 ,		6
191	Bias in Multimodal AI: Testbed for Fair Automatic Recruitment 2020 ,		7
190	Handwriting Biometrics: Applications and Future Trends in e-Security and e-Health. <i>Cognitive Computation</i> , 2020 , 12, 940-953	4.4	34
189	Keystroke Biometrics in Response to Fake News Propagation in a Global Pandemic 2020 ,		4
188	Quickest Intruder Detection For Multiple User Active Authentication 2020 ,		4
187	BioTouchPass: Handwritten Passwords for Touchscreen Biometrics. <i>IEEE Transactions on Mobile Computing</i> , 2020 , 19, 1532-1543	4.6	9
186	Blockchain and Biometrics: A First Look into Opportunities and Challenges. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 169-177	0.4	8
185	An Introduction to Fingerprint Presentation Attack Detection. <i>Advances in Computer Vision and Pattern Recognition</i> , 2019 , 3-31	1.1	4
184	Introduction to Iris Presentation Attack Detection. <i>Advances in Computer Vision and Pattern Recognition</i> , 2019 , 135-150	1.1	4
183	. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , 2019 , 1, 139-151	4.3	1
182	Continuous Presentation Attack Detection in Face Biometrics Based on Heart Rate. <i>Lecture Notes in Computer Science</i> , 2019 , 72-86	0.9	
181	Measuring the Gender and Ethnicity Bias in Deep Models for Face Recognition. <i>Lecture Notes in Computer Science</i> , 2019 , 584-593	0.9	6
180	Presentation Attacks in Signature Biometrics: Types and Introduction to Attack Detection. <i>Advances in Computer Vision and Pattern Recognition</i> , 2019 , 439-453	1.1	10
179	Quality-Based Pulse Estimation from NIR Face Video with Application to Driver Monitoring. <i>Lecture Notes in Computer Science</i> , 2019 , 108-119	0.9	3

178	Super-resolution for Selfie Biometrics: Introduction and Application to Face and Iris. <i>Advances in Computer Vision and Pattern Recognition</i> , 2019 , 105-128	1.1	5
177	DeepSignCX: Signature Complexity Detection using Recurrent Neural Networks 2019 ,		7
176	FaceQnet: Quality Assessment for Face Recognition based on Deep Learning 2019 ,		30
175	Do You Need More Data? The DeepSignDB On-Line Handwritten Signature Biometric Database 2019 ,		6
174	Reducing the template ageing effect in on-line signature biometrics. <i>IET Biometrics</i> , 2019 , 8, 422-430	2.9	13
173	MultiLock 2019 ,		12
172	BioTouchPass Demo 2019 ,		1
171	A Survey of Super-Resolution in Iris Biometrics With Evaluation of Dictionary-Learning. <i>IEEE Access</i> , 2019 , 7, 6519-6544	3.5	14
170	Active detection of age groups based on touch interaction. <i>IET Biometrics</i> , 2019 , 8, 101-108	2.9	14
169	Introduction to Face Presentation Attack Detection. <i>Advances in Computer Vision and Pattern Recognition</i> , 2019 , 187-206	1.1	17
168	Improving automated latent fingerprint identification using extended minutia types. <i>Information Fusion</i> , 2019 , 50, 9-19	16.7	23
167	Facial Soft Biometrics for Recognition in the Wild: Recent Works, Annotation, and COTS Evaluation. <i>IEEE Transactions on Information Forensics and Security</i> , 2018 , 13, 2001-2014	8	52
166	Exploring Recurrent Neural Networks for On-Line Handwritten Signature Biometrics. <i>IEEE Access</i> , 2018 , 6, 5128-5138	3.5	84
165	Multiple classifiers in biometrics. part 1: Fundamentals and review. <i>Information Fusion</i> , 2018 , 44, 57-64	16.7	45
164	Multiple classifiers in biometrics. Part 2: Trends and challenges. <i>Information Fusion</i> , 2018 , 44, 103-112	16.7	52
163	Benchmarking Touchscreen Biometrics for Mobile Authentication. <i>IEEE Transactions on Information Forensics and Security</i> , 2018 , 13, 2720-2733	8	44
162	Trends and Controversies. <i>IEEE Intelligent Systems</i> , 2018 , 33, 41-67	4.2	8
161	Person Recognition beyond the Visible Spectrum: Combining Body Shape and Texture from mmW Images 2018 ,		1

160	Time Analysis of Pulse-Based Face Anti-Spoofing in Visible and NIR 2018 ,		24
159	Multi-biometric template protection based on Homomorphic Encryption. <i>Pattern Recognition</i> , 2017 , 67, 149-163	7.7	82
158	Exploring Body Shape From mmW Images for Person Recognition. <i>IEEE Transactions on Information Forensics and Security</i> , 2017 , 12, 2078-2089	8	10
157	. <i>IEEE Access</i> , 2017 , 5, 8606-8619	3.5	17
156	Benchmarking desktop and mobile handwriting across COTS devices: The e-BioSign biometric database. <i>PLoS ONE</i> , 2017 , 12, e0176792	3.7	44
155	Signature authentication based on human intervention: performance and complementarity with automatic systems. <i>IET Biometrics</i> , 2017 , 6, 307-315	2.9	13
154	Complexity-Based Biometric Signature Verification 2017 ,		3
153	Humans in the loop: Study of semi-automatic signature recognition based on attributes 2017 ,		1
152	Human-Assisted Signature Recognition Based on Comparative Attributes 2017 ,		2
151	Exploring a statistical method for touchscreen swipe biometrics 2017 ,		2
150	From Biometric Scores to Forensic Likelihood Ratios. <i>Advances in Computer Vision and Pattern Recognition</i> , 2017 , 305-327	1.1	6
149	Body Shape-Based Biometric Person Recognition from mmW Images. <i>Lecture Notes in Computer Science</i> , 2017 , 453-461	0.9	0
148	Dynamic Signatures as Forensic Evidence: A New Expert Tool Including Population Statistics. <i>Advances in Computer Vision and Pattern Recognition</i> , 2017 , 329-349	1.1	
147	Towards human-assisted signature recognition: Improving biometric systems through attribute-based recognition 2016 ,		7
146	Graphical Password-Based User Authentication With Free-Form Doodles. <i>IEEE Transactions on Human-Machine Systems</i> , 2016 , 46, 607-614	4.1	22
145	Keystroke Biometrics Ongoing Competition. <i>IEEE Access</i> , 2016 , 4, 7736-7746	3.5	26
144	Implementation of Fixed-Length Template Protection Based on Homomorphic Encryption with Application to Signature Biometrics 2016 ,		8
143	Dealing with occlusions in face recognition by region-based fusion 2016 ,		4

142	Variable-length template protection based on homomorphic encryption with application to signature biometrics 2016 ,		9
141	Unlinkable and irreversible biometric template protection based on bloom filters. <i>Information Sciences</i> , 2016 , 370-371, 18-32	7.7	63
140	On-line signature recognition through the combination of real dynamic data and synthetically generated static data. <i>Pattern Recognition</i> , 2015 , 48, 2921-2934	7.7	74
139	Feature-based dynamic signature verification under forensic scenarios 2015 ,		15
138	Facial soft biometric features for forensic face recognition. <i>Forensic Science International</i> , 2015 , 257, 271-284	2.6	47
137	Enhanced on-line signature verification based on skilled forgery detection using Sigma-LogNormal Features 2015 ,		23
136	Biometrics Systems Under Spoofing Attack: An evaluation methodology and lessons learned. <i>IEEE Signal Processing Magazine</i> , 2015 , 32, 20-30	9.4	113
135	Synthesis of large scale hand-shape databases for biometric applications. <i>Pattern Recognition Letters</i> , 2015 , 68, 183-189	4.7	5
134	Combination of Face Regions in Forensic Scenarios. <i>Journal of Forensic Sciences</i> , 2015 , 60, 1046-51	1.8	5
133	Pre-registration of latent fingerprints based on orientation field. <i>IET Biometrics</i> , 2015 , 4, 42-52	2.9	15
132	Preprocessing and Feature Selection for Improved Sensor Interoperability in Online Biometric Signature Verification. <i>IEEE Access</i> , 2015 , 3, 478-489	3.5	62
131	Increasing the robustness of biometric templates for dynamic signature biometric systems 2015 ,		5
130	Feature exploration for biometric recognition using millimetre wave body images. <i>Eurasip Journal on Image and Video Processing</i> , 2015 , 2015,	2.5	5
129	Update strategies for HMM-based dynamic signature biometric systems 2015 ,		12
128	Regional fusion for high-resolution palmprint recognition using spectral minutiae representation. <i>IET Biometrics</i> , 2014 , 3, 94-100	2.9	17
127	Soft Biometrics and Their Application in Person Recognition at a Distance. <i>IEEE Transactions on Information Forensics and Security</i> , 2014 , 9, 464-475	8	91
126	Pre-registration for Improved Latent Fingerprint Identification 2014 ,		4
125	Biometric Antispoofing Methods: A Survey in Face Recognition. <i>IEEE Access</i> , 2014 , 2, 1530-1552	3.5	221

124	Mobile signature verification: feature robustness and performance comparison. <i>IET Biometrics</i> , 2014 , 3, 267-277	2.9	86
123	Comparison of Body Shape Descriptors for Biometric Recognition Using MMW Images 2014 ,		2
122	Protected Facial Biometric Templates Based on Local Gabor Patterns and Adaptive Bloom Filters 2014 ,		32
121	A novel hand reconstruction approach and its application to vulnerability assessment. <i>Information Sciences</i> , 2014 , 268, 103-121	7.7	9
120	Efficient software attack to multimodal biometric systems and its application to face and iris fusion. <i>Pattern Recognition Letters</i> , 2014 , 36, 243-253	4.7	27
119	Image Quality Assessment for Fake Biometric Detection: Application to Iris, Fingerprint, and Face Recognition. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 710-24	8.7	377
118	Evaluation of AFIS-Ranked Latent Fingerprint Matched Templates. <i>Lecture Notes in Computer Science</i> , 2014 , 230-241	0.9	3
117	Comparative Analysis of the Variability of Facial Landmarks for Forensics Using CCTV Images. <i>Lecture Notes in Computer Science</i> , 2014 , 409-418	0.9	1
116	Fingerprint Anti-spoofing in Biometric Systems. <i>Advances in Computer Vision and Pattern Recognition</i> , 2014 , 35-64	1.1	7
115	Iris image reconstruction from binary templates: An efficient probabilistic approach based on genetic algorithms. <i>Computer Vision and Image Understanding</i> , 2013 , 117, 1512-1525	4.3	79
114	Identification using face regions: application and assessment in forensic scenarios. <i>Forensic Science International</i> , 2013 , 233, 75-83	2.6	32
113	Understanding the discrimination power of facial regions in forensic casework 2013 ,		2
112	A novel approach of gait recognition through fusion with footstep information 2013 ,		13
111	Towards Regional Fusion for High-Resolution Palmprint Recognition 2013 ,		3
110	Comparative analysis and fusion of spatiotemporal information for footstep recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 823-34	13.3	53
109	The DooDB Graphical Password Database: Data Analysis and Benchmark Results. <i>IEEE Access</i> , 2013 , 1, 596-605	3.5	29
108	Variations of handwritten signatures with time: A sigma-lognormal analysis 2013 ,		3
107	On the use of spectral minutiae in high-resolution palmprint recognition 2013 ,		1

106	Assessment of gait recognition based on the lower part of the human body 2013 ,		5
105	Analysis of the variability of facial landmarks in a forensic scenario 2013 ,		4
104	Aging in biometrics: an experimental analysis on on-line signature. <i>PLoS ONE</i> , 2013 , 8, e69897	3.7	39
103	Dynamic Signature Verification on Smart Phones. <i>Communications in Computer and Information Science</i> , 2013 , 213-222	0.3	9
102	Analysing Facial Regions for Face Recognition Using Forensic Protocols. <i>Communications in Computer and Information Science</i> , 2013 , 223-230	0.3	
101	BioSecure signature evaluation campaign (BSEC12009): Evaluating online signature algorithms depending on the quality of signatures. <i>Pattern Recognition</i> , 2012 , 45, 993-1003	7.7	81
100	Synthetic on-line signature generation. Part II: Experimental validation. <i>Pattern Recognition</i> , 2012 , 45, 2622-2632	7.7	44
99	Synthetic on-line signature generation. Part I: Methodology and algorithms. <i>Pattern Recognition</i> , 2012 , 45, 2610-2621	7.7	75
98	Improving radial triangulation-based forensic palmprint recognition according to point pattern comparison by relaxation 2012 ,		3
97	Iris liveness detection based on quality related features 2012 ,		63
96	Fusion of footsteps and face biometrics on an unsupervised and uncontrolled environment 2012 ,		1
95	Simulation of millimeter-wave body images and its application to biometric recognition 2012 ,		6
94	Face verification put to test: A hill-climbing attack based on the uphill-simplex algorithm 2012 ,		6
93	A high performance fingerprint liveness detection method based on quality related features. <i>Future Generation Computer Systems</i> , 2012 , 28, 311-321	7.5	126
92	On the Vulnerability of Iris-Based Systems to a Software Attack Based on a Genetic Algorithm. <i>Lecture Notes in Computer Science</i> , 2012 , 114-121	0.9	6
91	Variability Compensation Using NAP for Unconstrained Face Recognition. <i>Advances in Intelligent and Soft Computing</i> , 2012 , 129-139		2
90	Quality Measures in Biometric Systems. <i>IEEE Security and Privacy</i> , 2011 ,	2	8
89	Analysis of spatial domain information for footstep recognition. <i>IET Computer Vision</i> , 2011 , 5, 380	1.4	12

88	Evaluation of direct attacks to fingerprint verification systems. <i>Telecommunication Systems</i> , 2011 , 47, 243-254	2-3	59
87	An evaluation of indirect attacks and countermeasures in fingerprint verification systems. <i>Pattern Recognition Letters</i> , 2011 , 32, 1643-1651	4-7	73
86	Quality Analysis of Dynamic Signature Based on the Sigma-Lognormal Model 2011 ,		7
85	Distance-based feature extraction for biometric recognition of Millimeter Wave body images 2011 ,		4
84	Latent-to-full palmprint comparison based on radial triangulation under forensic conditions 2011 ,		2
83	Predicting iris vulnerability to direct attacks based on quality related features 2011 ,		3
82	Hill-Climbing Attack Based on the Uphill Simplex Algorithm and Its Application to Signature Verification. <i>Lecture Notes in Computer Science</i> , 2011 , 83-94	0.9	5
81	Exploiting Character Class Information in Forensic Writer Identification. <i>Lecture Notes in Computer Science</i> , 2011 , 31-42	0.9	
80	Towards a Better Understanding of the Performance of Latent Fingerprint Recognition in Realistic Forensic Conditions 2010 ,		4
79	Forensic Writer Identification Using Allographic Features 2010 ,		10
78	The multiscenario multienvironment BioSecure Multimodal Database (BMDB). <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 1097-111	13-3	138
77	Cancelable Templates for Sequence-Based Biometrics with Application to On-line Signature Recognition. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2010 , 40, 525-538		104
76	Quality-Based Conditional Processing in Multi-Biometrics: Application to Sensor Interoperability. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2010 , 40, 1168-1179		40
75	Kinematical Analysis of Synthetic Dynamic Signatures Using the Sigma-Lognormal Model 2010 ,		2
74	A Comparative Evaluation of Finger-Drawn Graphical Password Verification Methods 2010 ,		3
73	DooDB: A Graphical Password Database Containing Doodles and Pseudo-Signatures 2010 ,		5
72	Scenario-based score fusion for face recognition at a distance 2010 ,		7
71	Detecting Invalid Samples in Hand Geometry Verification through Geometric Measurements 2010 ,		3

70	BiosecurID: a multimodal biometric database. <i>Pattern Analysis and Applications</i> , 2010 , 13, 235-246	2.3	98
69	On the vulnerability of face verification systems to hill-climbing attacks. <i>Pattern Recognition</i> , 2010 , 43, 1027-1038	7.7	75
68	An evaluation of direct attacks using fake fingers generated from ISO templates. <i>Pattern Recognition Letters</i> , 2010 , 31, 725-732	4.7	76
67	Face Recognition at a Distance: Scenario Analysis and Applications. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 341-348		4
66	Analysis of Time Domain Information for Footstep Recognition. <i>Lecture Notes in Computer Science</i> , 2010 , 489-498	0.9	6
65	Acquisition Scenario Analysis for Face Recognition at a Distance. <i>Lecture Notes in Computer Science</i> , 2010 , 461-468	0.9	3
64	Fusion of static image and dynamic information for signature verification 2009 ,		7
63	Robustness of Signature Verification Systems to Imitators with Increasing Skills 2009 ,		9
62	Improving the Enrollment in Dynamic Signature Verification with Synthetic Samples 2009 ,		17
61	Impact of time variability in off-line writer identification and verification 2009 ,		3
60	Hill-climbing attack to an Eigenface-based face verification system 2009 ,		15
59	Fingerprint liveness detection based on quality measures 2009 ,		18
58	Evaluation of Brute-force Attack to Dynamic Signature Verification Using Synthetic Samples 2009 ,		2
57	Benchmarking Quality-Dependent and Cost-Sensitive Score-Level Multimodal Biometric Fusion Algorithms. <i>IEEE Transactions on Information Forensics and Security</i> , 2009 , 4, 849-866	8	58
56	Synthetic generation of handwritten signatures based on spectral analysis 2009 ,		7
55	Fingerprint Recognition 2009 , 51-88		15
54	Online Handwritten Signature Verification 2009 , 125-165		8
53	Biometrics beyond the Visible Spectrum: Imaging Technologies and Applications. <i>Lecture Notes in Computer Science</i> , 2009 , 154-161	0.9	5

52	Comparison of Distance-Based Features for Hand Geometry Authentication. <i>Lecture Notes in Computer Science</i> , 2009 , 325-332	0.9	6
51	Analysis of the Utility of Classical and Novel Speech Quality Measures for Speaker Verification. <i>Lecture Notes in Computer Science</i> , 2009 , 434-442	0.9	5
50	Vulnerability Assessment of Fingerprint Matching Based on Time Analysis. <i>Lecture Notes in Computer Science</i> , 2009 , 285-292	0.9	0
49	Fingerprint Image-Quality Estimation and its Application to Multialgorithm Verification. <i>IEEE Transactions on Information Forensics and Security</i> , 2008 , 3, 331-338	8	51
48	Dynamic signature verification with template protection using helper data. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	9
47	Performance and robustness: A trade-off in dynamic signature verification. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	7
46	Fake fingertip generation from a minutiae template 2008 ,		10
45	Performance of fingerprint quality measures depending on sensor technology. <i>Journal of Electronic Imaging</i> , 2008 , 17, 011008	0.7	9
44	Towards mobile authentication using dynamic signature verification: Useful features and performance evaluation 2008 ,		17
43	Dealing with sensor interoperability in multi-biometrics: the UPM experience at the Biosecure Multimodal Evaluation 2007 2008 ,		15
42	Function-Based Online Signature Verification 2008 , 225-245		5
41	Direct Attacks Using Fake Images in Iris Verification. <i>Lecture Notes in Computer Science</i> , 2008 , 181-190	0.9	50
40	On-Line Signature Verification 2008 , 189-209		44
39	Impact of Signature Legibility and Signature Type in Off-Line Signature Verification 2007 ,		16
38	Feature Selection Based on Genetic Algorithms for On-Line Signature Verification 2007 ,		17
37	Speaker verification using speaker- and test-dependent fast score normalization. <i>Pattern Recognition Letters</i> , 2007 , 28, 90-98	4.7	24
36	Biosec baseline corpus: A multimodal biometric database. <i>Pattern Recognition</i> , 2007 , 40, 1389-1392	7.7	107
35	A Comparative Study of Fingerprint Image-Quality Estimation Methods. <i>IEEE Transactions on Information Forensics and Security</i> , 2007 , 2, 734-743	8	126

34	Biosecure reference systems for on-line signature verification: A study of complementarity. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2007 , 62, 36-61	2	10
33	HMM-based on-line signature verification: Feature extraction and signature modeling. <i>Pattern Recognition Letters</i> , 2007 , 28, 2325-2334	4.7	235
32	Bayesian Hill-Climbing Attack and Its Application to Signature Verification. <i>Lecture Notes in Computer Science</i> , 2007 , 386-395	0.9	7
31	Automatic Measures for Predicting Performance in Off-Line Signature. <i>Proceedings International Conference on Image Processing</i> , 2007 ,	1.6	27
30	On the Applicability of Off-Line Signatures to the Fuzzy Vault Construction. <i>Proc Int Conf Doc Anal Recognit</i> , 2007 ,		11
29	Classification of handwritten signatures based on name legibility 2007 ,		2
28	On The Effects of Sampling Rate and Interpolation in HMM-Based Dynamic Signature Verification. <i>Proc Int Conf Doc Anal Recognit</i> , 2007 ,		10
27	Speaker Recognition The A TVS-UAM System at NIST SRE 05. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2007 , 22, 15-21	2.4	4
26	Secure access system using signature verification over tablet PC. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2007 , 22, 3-8	2.4	7
25	Comparison of fingerprint quality measures using an optical and a capacitive sensor 2007 ,		11
24	Universal Background Models for Dynamic Signature Verification 2007 ,		10
23	Biometric Hashing Based on Genetic Selection and Its Application to On-Line Signatures. <i>Lecture Notes in Computer Science</i> , 2007 , 1134-1143	0.9	4
22	Cryptographic key generation using handwritten signature 2006 , 6202, 225		25
21	. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2006 , 21, 29-37	2.4	23
20	Hill-Climbing and Brute-Force Attacks on Biometric Systems: A Case Study in Match-on-Card Fingerprint Verification 2006 ,		32
19	On the Vulnerability of Fingerprint Verification Systems to Fake Fingerprints Attacks 2006 ,		28
18	Using quality measures for multilevel speaker recognition. <i>Computer Speech and Language</i> , 2006 , 20, 192-209	2.8	10
17	Target dependent score normalization techniques and their application to signature verification. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2005 , 35, 418-425		77

16	On the effects of image quality degradation on minutiae- and ridge-based automatic fingerprint recognition 2005 ,		13
15	An enhanced Gabor filter-based segmentation algorithm for fingerprint recognition systems. <i>Proc Int Symp Image Signal Process Anal</i> , 2005 ,		18
14	Adapted user-dependent multimodal biometric authentication exploiting general information. <i>Pattern Recognition Letters</i> , 2005 , 26, 2628-2639	4.7	33
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