Julian Fierrez

List of Publications by Citations

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	MCYT baseline corpus: a bimodal biometric database. *IET Computer Vision*, **2003**, 150, 395		434
230	Image Quality Assessment for Fake Biometric Detection: Application to Iris, Fingerprint, and Face Recognition. *IEEE Transactions on Image Processing*, **2014**, 23, 710-24	8.7	377
229	HMM-based on-line signature verification: Feature extraction and signature modeling. *Pattern Recognition Letters*, **2007**, 28, 2325-2334	4.7	235
228	Biometric Antispoofing Methods: A Survey in Face Recognition. *IEEE Access*, **2014**, 2, 1530-1552	3.5	221
227	Deepfakes and beyond: A Survey of face manipulation and fake detection. *Information Fusion*, **2020**, 64, 131-148	16.7	169
226	The multiscenario multienvironment BioSecure Multimodal Database (BMDB). *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2010**, 32, 1097-111	13.3	138
225	A high performance fingerprint liveness detection method based on quality related features. *Future Generation Computer Systems*, **2012**, 28, 311-321	7.5	126
224	A Comparative Study of Fingerprint Image-Quality Estimation Methods. *IEEE Transactions on Information Forensics and Security*, **2007**, 2, 734-743	8	126
223	Biometrics Systems Under Spoofing Attack: An evaluation methodology and lessons learned. *IEEE Signal Processing Magazine*, **2015**, 32, 20-30	9.4	113
222	Biosec baseline corpus: A multimodal biometric database. *Pattern Recognition*, **2007**, 40, 1389-1392	7.7	107
221	Discriminative multimodal biometric authentication based on quality measures. *Pattern Recognition*, **2005**, 38, 777-779	7.7	105
220	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		104
219	BiosecurID: a multimodal biometric database. *Pattern Analysis and Applications*, **2010**, 13, 235-246	2.3	98
218	Soft Biometrics and Their Application in Person Recognition at a Distance. *IEEE Transactions on Information Forensics and Security*, **2014**, 9, 464-475	8	91
217	Mobile signature verification: feature robustness and performance comparison. *IET Biometrics*, **2014**, 3, 267-277	2.9	86
216	Exploring Recurrent Neural Networks for On-Line Handwritten Signature Biometrics. *IEEE Access*, **2018**, 6, 5128-5138	3.5	84
215	Multi-biometric template protection based on Homomorphic Encryption. *Pattern Recognition*, **2017**, 67, 149-163	7.7	82

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214	BioSecure signature evaluation campaign (BSEC2009): Evaluating online signature algorithms depending on the quality of signatures. *Pattern Recognition*, **2012**, 45, 993-1003	7.7	81
213	Iris image reconstruction from binary templates: An efficient probabilistic approach based on genetic algorithms. *Computer Vision and Image Understanding*, **2013**, 117, 1512-1525	4.3	79
212	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		77
211	An evaluation of direct attacks using fake fingers generated from ISO templates. *Pattern Recognition Letters*, **2010**, 31, 725-732	4.7	76
210	Synthetic on-line signature generation. Part I: Methodology and algorithms. *Pattern Recognition*, **2012**, 45, 2610-2621	7.7	75
209	On the vulnerability of face verification systems to hill-climbing attacks. *Pattern Recognition*, **2010**, 43, 1027-1038	7.7	75
208	On-line signature recognition through the combination of real dynamic data and synthetically generated static data. *Pattern Recognition*, **2015**, 48, 2921-2934	7.7	74
207	An evaluation of indirect attacks and countermeasures in fingerprint verification systems. *Pattern Recognition Letters*, **2011**, 32, 1643-1651	4.7	73
206	Iris liveness detection based on quality related features **2012**,		63
205	Unlinkable and irreversible biometric template protection based on bloom filters. *Information Sciences*, **2016**, 370-371, 18-32	7.7	63
204	Preprocessing and Feature Selection for Improved Sensor Interoperability in Online Biometric Signature Verification. *IEEE Access*, **2015**, 3, 478-489	3.5	62
203	Bayesian analysis of fingerprint, face and signature evidences with automatic biometric systems. *Forensic Science International*, **2005**, 155, 126-40	2.6	61
202	Evaluation of direct attacks to fingerprint verification systems. *Telecommunication Systems*, **2011**, 47, 243-254	2.3	59
201	Benchmarking Quality-Dependent and Cost-Sensitive Score-Level Multimodal Biometric Fusion Algorithms. *IEEE Transactions on Information Forensics and Security*, **2009**, 4, 849-866	8	58
200	Comparative analysis and fusion of spatiotemporal information for footstep recognition. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2013**, 35, 823-34	13.3	53
199	Facial Soft Biometrics for Recognition in the Wild: Recent Works, Annotation, and COTS Evaluation. *IEEE Transactions on Information Forensics and Security*, **2018**, 13, 2001-2014	8	52
198	Multiple classifiers in biometrics. Part 2: Trends and challenges. *Information Fusion*, **2018**, 44, 103-112	16.7	52
197	Fingerprint Image-Quality Estimation and its Application to Multialgorithm Verification. *IEEE Transactions on Information Forensics and Security*, **2008**, 3, 331-338	8	51

196	Direct Attacks Using Fake Images in Iris Verification. *Lecture Notes in Computer Science*, **2008**, 181-190	0.9	50
195	Facial soft biometric features for forensic face recognition. *Forensic Science International*, **2015**, 257, 271-284	2.6	47
194	Multiple classifiers in biometrics. part 1: Fundamentals and review. *Information Fusion*, **2018**, 44, 57-64	16.7	45
193	Benchmarking desktop and mobile handwriting across COTS devices: The e-BioSign biometric database. *PLoS ONE*, **2017**, 12, e0176792	3.7	44
192	Benchmarking Touchscreen Biometrics for Mobile Authentication. *IEEE Transactions on Information Forensics and Security*, **2018**, 13, 2720-2733	8	44
191	Synthetic on-line signature generation. Part II: Experimental validation. *Pattern Recognition*, **2012**, 45, 2622-2632	7.7	44
190	On-Line Signature Verification **2008**, 189-209		44
189	Quality-Based Conditional Processing in Multi-Biometrics: Application to Sensor Interoperability. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2010**, 40, 1168-1179		40
188	Aging in biometrics: an experimental analysis on on-line signature. *PLoS ONE*, **2013**, 8, e69897	3.7	39
187	. *IEEE Journal on Selected Topics in Signal Processing*, **2020**, 14, 1038-1048	7.5	35
186	Handwriting Biometrics: Applications and Future Trends in e-Security and e-Health. *Cognitive Computation*, **2020**, 12, 940-953	4.4	34
185	Adapted user-dependent multimodal biometric authentication exploiting general information. *Pattern Recognition Letters*, **2005**, 26, 2628-2639	4.7	33
184	Identification using face regions: application and assessment in forensic scenarios. *Forensic Science International*, **2013**, 233, 75-83	2.6	32
183	Protected Facial Biometric Templates Based on Local Gabor Patterns and Adaptive Bloom Filters **2014**,		32
182	Hill-Climbing and Brute-Force Attacks on Biometric Systems: A Case Study in Match-on-Card Fingerprint Verification **2006**,		32
181	Fusion strategies in multimodal biometric verification **2003**,		30
180	Bayesian adaptation for user-dependent multimodal biometric authentication. *Pattern Recognition*, **2005**, 38, 1317-1319	7.7	30
179	FaceQnet: Quality Assessment for Face Recognition based on Deep Learning **2019**,		30

160 An enhanced Gabor filter-based segmentation algorithm for fingerprint recognition systems. *Proc Int Symp Image Signal Process Anal*, **2005**, | | 18

159 . *IEEE Transactions on Biometrics, Behavior, and Identity Science*, **2021**, 3, 229-239 | 4.3 | 18

158 DeepFakes Evolution: Analysis of Facial Regions and Fake Detection Performance. *Lecture Notes in Computer Science*, **2021**, 442-456 | 0.9 | 18

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156 Regional fusion for high-resolution palmprint recognition using spectral minutiae representation. *IET Biometrics*, **2014**, 3, 94-100 | 2.9 | 17

155 Improving the Enrollment in Dynamic Signature Verfication with Synthetic Samples **2009**, | | 17

154 Towards mobile authentication using dynamic signature verification: Useful features and performance evaluation **2008**, | | 17

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149 Pre-registration of latent fingerprints based on orientation field. *IET Biometrics*, **2015**, 4, 42-52 | 2.9 | 15

148 Hill-climbing attack to an Eigenface-based face verification system **2009**, | | 15

147 Dealing with sensor interoperability in multi-biometrics: the UPM experience at the Biosecure Multimodal Evaluation 2007 **2008**, | | 15

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143 A Survey of Super-Resolution in Iris Biometrics With Evaluation of Dictionary-Learning. *IEEE Access*, **2019**, 7, 6519-6544 | 3.5 | 14

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141	Combining Multiple Matchers for Fingerprint Verification: A Case Study in FVC2004. *Lecture Notes in Computer Science*, **2005**, 1035-1042	0.9	14
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129	Forensic Writer Identification Using Allographic Features **2010**,		10
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125	Universal Background Models for Dynamic Signature Verification **2007**,		10

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115	InsideBias: Measuring Bias in Deep Networks and Application to Face Gender Biometrics **2021**,		9
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113	Quality Measures in Biometric Systems. *IEEE Security and Privacy*, **2011**,	2	8
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111	Online Handwritten Signature Verification **2009**, 125-165		8
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109	Blockchain and Biometrics: A First Look into Opportunities and Challenges. *Advances in Intelligent Systems and Computing*, **2020**, 169-177	0.4	8
108	Exploiting complexity in pen- and touch-based signature biometrics. *International Journal on Document Analysis and Recognition*, **2020**, 23, 129-141	3.8	7
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105	Quality Analysis of Dynamic Signature Based on the Sigma-Lognormal Model **2011**,		7
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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	From Biometric Scores to Forensic Likelihood Ratios. *Advances in Computer Vision and Pattern Recognition*, **2017**, 305-327	1.1	6
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89	Smartphone Sensors for Modeling Human-Computer Interaction: General Outlook and Research Datasets for User Authentication **2020**,		6

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87	BeCAPTCHA: Behavioral bot detection using touchscreen and mobile sensors benchmarked on HuMIdb. *Engineering Applications of Artificial Intelligence*, **2021**, 98, 104058	7.2	6
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81	DooDB: A Graphical Password Database Containing Doodles and Pseudo-Signatures **2010**,		5
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75	Analysis of the Utility of Classical and Novel Speech Quality Measures for Speaker Verification. *Lecture Notes in Computer Science*, **2009**, 434-442	0.9	5
74	Symbolic AI for XAI: Evaluating LFIT Inductive Programming for Fair and Explainable Automatic Recruitment **2021**,		5
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66	Distance-based feature extraction for biometric recognition of Millimeter Wave body images **2011**,		4
65	Speaker Recognition The A TVS-UAM System at NIST SRE 05. *IEEE Aerospace and Electronic Systems Magazine*, **2007**, 22, 15-21	2.4	4
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62	Fusing CNNs and statistical indicators to improve image classification. *Information Fusion*, **2022**, 79, 174-187	18.7	4
61	Face Recognition at a Distance: Scenario Analysis and Applications. *Advances in Intelligent and Soft Computing*, **2010**, 341-348		4
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59	Quickest Intruder Detection For Multiple User Active Authentication **2020**,		4
58	Dealing with occlusions in face recognition by region-based fusion **2016**,		4
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55	Complexity-Based Biometric Signature Verification **2017**,		3
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53	Variations of handwritten signatures with time: A sigma-lognormal analysis **2013**,		3

52	A Comparative Evaluation of Finger-Drawn Graphical Password Verification Methods **2010**,		3
51	Detecting Invalid Samples in Hand Geometry Verification through Geometric Measurements **2010**,		3
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48	DeepFakes detection across generations: Analysis of facial regions, fusion, and performance evaluation. *Engineering Applications of Artificial Intelligence*, **2022**, 110, 104673	7.2	3
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40	Comparison of Body Shape Descriptors for Biometric Recognition Using MMW Images **2014**,		2
39	Kinematical Analysis of Synthetic Dynamic Signatures Using the Sigma-Lognormal Model **2010**,		2
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37	Evaluation of Brute-force Attack to Dynamic Signature Verification Using Synthetic Samples **2009**,		2
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25	Person Recognition beyond the Visible Spectrum: Combining Body Shape and Texture from mmW Images **2018**,		1
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22	On the use of spectral minutiae in high-resolution palmprint recognition **2013**,		1
21	An Introduction to Digital Face Manipulation. *Advances in Computer Vision and Pattern Recognition*, **2022**, 3-26	1.1	1
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13	ICDAR 2021 Competition on On-Line Signature Verification. *Lecture Notes in Computer Science*, **2021**, 723-737	0.9	1
12	FaceQvec: Vector Quality Assessment for Face Biometrics based on ISO Compliance **2022**,		1
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1	Automatic Signature Verification on Handheld Devices321-338		