

# Miguel A. Ferrer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3795825/publications.pdf>

Version: 2024-02-01

173  
papers

3,650  
citations

257429

24  
h-index

182417

51  
g-index

178  
all docs

178  
docs citations

178  
times ranked

2238  
citing authors

#	ARTICLE	IF	CITATIONS
1	Revising the Impact and Prospects of Activity and Ventilation Rate Bio-Loggers for Tracking Welfare and Fish-Environment Interactions in Salmonids and Mediterranean Farmed Fish. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	7
2	SVC-onGoing: Signature verification competition. <i>Pattern Recognition</i> , 2022, 127, 108609.	8.1	28
3	2D vs 3D Online Writer Identification: A Comparative Study. <i>Lecture Notes in Computer Science</i> , 2021, , 307-321.	1.3	3
4	ICDAR 2021 Competition on Script Identification in the Wild. <i>Lecture Notes in Computer Science</i> , 2021, , 738-753.	1.3	0
5	Human or Machine? It Is Not What You Write, But How You Write It. , 2021, , .		3
6	Using a Human Interviewer or an Automatic Interviewer in the Evaluation of Patients with AD from Speech. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3228.	2.5	1
7	ICDAR 2021 Competition on On-Line Signature Verification. <i>Lecture Notes in Computer Science</i> , 2021, , 723-737.	1.3	4
8	Validation of GWAS-Identified Variants for Anti-TNF Drug Response in Rheumatoid Arthritis: A Meta-Analysis of Two Large Cohorts. <i>Frontiers in Immunology</i> , 2021, 12, 672255.	4.8	6
9	One vs. One Offline Signature Verification: A Forensic Handwriting Examiners Perspective. , 2021, , .		1
10	Towards human-like kinematics in industrial robotic arms: a case study on a UR3 robot. , 2021, , .		3
11	iDeLog: Iterative Dual Spatial and Kinematic Extraction of Sigma-Lognormal Parameters. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020, 42, 114-125.	13.9	28
12	Investigating the Common Authorship of Signatures by Off-Line Automatic Signature Verification Without the Use of Reference Signatures. <i>IEEE Transactions on Information Forensics and Security</i> , 2020, 15, 487-499.	6.9	9
13	Handwriting Biometrics: Applications and Future Trends in e-Security and e-Health. <i>Cognitive Computation</i> , 2020, 12, 940-953.	5.2	71
14	From operculum and body tail movements to different coupling of physical activity and respiratory frequency in farmed gilthead sea bream and European sea bass. Insights on aquaculture biosensing. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105531.	7.7	14
15	NFKB2 polymorphisms associate with the risk of developing rheumatoid arthritis and response to TNF inhibitors: Results from the REPAIR consortium. <i>Scientific Reports</i> , 2020, 10, 4316.	3.3	14
16	Alzheimer's disease and automatic speech analysis: A review. <i>Expert Systems With Applications</i> , 2020, 150, 113213.	7.6	64
17	Off-line Signature Verification Using Multidirectional Run-Length Features. , 2020, , .		1
18	The Lognormality Principle and its Applications in e-Security, e-Learning and e-Health. <i>Series in Machine Perception and Artificial Intelligence</i> , 2020, , .	0.1	3

#	ARTICLE	IF	CITATIONS
19	SM-DTW: Stability Modulated Dynamic Time Warping for signature verification. Pattern Recognition Letters, 2019, 121, 113-122.	4.2	38
20	Steroid hormone-related polymorphisms associate with the development of bone erosions in rheumatoid arthritis and help to predict disease progression: Results from the REPAIR consortium. Scientific Reports, 2019, 9, 14812.	3.3	7
21	Generating Off-line and On-line Forgeries from On-line Genuine Signatures. , 2019, , .		5
22	Dynamically enhanced static handwriting representation for Parkinsonâ€™s disease detection. Pattern Recognition Letters, 2019, 128, 204-210.	4.2	74
23	Universal robot employment to mimic human writing. , 2019, , .		10
24	A Perspective Analysis of Handwritten Signature Technology. ACM Computing Surveys, 2019, 51, 1-39.	23.0	142
25	Ultra-Low Power Sensor Devices for Monitoring Physical Activity and Respiratory Frequency in Farmed Fish. Frontiers in Physiology, 2019, 10, 667.	2.8	32
26	Evaluation of 12 GWAS-drawn SNPs as biomarkers of rheumatoid arthritis response to TNF inhibitors. A potential SNP association with response to etanercept. PLoS ONE, 2019, 14, e0213073.	2.5	19
27	Weighted Direct Matching Points for User Stability Model in Multiple Domains: A Proposal for On-Line Signature Verification. , 2019, , .		5
28	Anthropomorphic Features for On-Line Signatures. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2807-2819.	13.9	19
29	Polymorphisms at phase I-metabolizing enzyme and hormone receptor loci influence the response to anti-TNF therapy in rheumatoid arthritis patients. Pharmacogenomics Journal, 2019, 19, 83-96.	2.0	10
30	Static and Dynamic Synthesis of Bengali and Devanagari Signatures. IEEE Transactions on Cybernetics, 2018, 48, 2896-2907.	9.5	18
31	Dynamic Signature Verification System Based on One Real Signature. IEEE Transactions on Cybernetics, 2018, 48, 228-239.	9.5	84
32	A Biometric Attack Case Based on Signature Synthesis. , 2018, , .		6
33	Stirring Up the Learning to Program Robotic Arms Through the Generation of Student Handwriting. , 2018, , .		1
34	Thai Automatic signature verification System Employing Textural Features. IET Biometrics, 2018, 7, 615-627.	2.5	7
35	Tracking the Ballistic Trajectory in Complex and Long Handwritten Signatures. , 2018, , .		9
36	Robotic Arm Motion for Verifying Signatures. , 2018, , .		5

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37	Validation study of genetic biomarkers of response to TNF inhibitors in rheumatoid arthritis. PLoS ONE, 2018, 13, e0196793.	2.5	13
38	SSBC 2018: Sclera Segmentation Benchmarking Competition. , 2018, , .		14
39	A Behavioral Handwriting Model for Static and Dynamic Signature Synthesis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1041-1053.	13.9	65
40	Generation of Duplicated Off-Line Signature Images for Verification Systems. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 951-964.	13.9	43
41	Stability-based system for bearing fault early detection. Expert Systems With Applications, 2017, 79, 65-75.	7.6	18
42	Temporal evolution in synthetic handwriting. Pattern Recognition, 2017, 68, 233-244.	8.1	20
43	Myoelectronic signal-based methodology for the analysis of handwritten signatures. Human Movement Science, 2017, 55, 18-30.	1.4	7
44	SSERBC 2017: Sclera segmentation and eye recognition benchmarking competition. , 2017, , .		28
45	An Automatic Student Verification System Utilising Off-Line Thai Name Components. , 2017, , .		3
46	Linking face images captured from the optical phenomenon in the wild for forensic science. , 2017, , .		1
47	Two-steps perceptual important points estimator in 8-connected curves from handwritten signature. , 2017, , .		3
48	A decision-level fusion strategy for multimodal ocular biometric in visible spectrum based on posterior probability. , 2017, , .		2
49	The new communication network for an internet of everything based security/safety/general management/visitor's services for the Papal Basilica and Sacred Convent of Saint Francis in Assisi, Italy. , 2017, , .		1
50	Assessing the common authorship of a set of questioned signature images. , 2017, , .		1
51	Recovering Western On-Line Signatures from Image-Based Specimens. , 2017, , .		9
52	Study of several parameters for the detection of amyotrophic lateral sclerosis from articulatory movement. Loquens, 2017, 4, 038.	0.1	4
53	Sclera Vessel Pattern Synthesis Based on a Non-parametric Texture Synthesis Technique. Advances in Intelligent Systems and Computing, 2017, , 241-250.	0.6	4
54	Multiple Generation of Bengali Static Signatures. , 2016, , .		1

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55	SSRBC 2016: Sclera Segmentation and Recognition Benchmarking Competition. , 2016, , .		24
56	Fast and efficient multimodal eye biometrics using projective dictionary pair learning. , 2016, , .		4
57	Multi-script versus single-script scenarios in automatic off-line signature verification. IET Biometrics, 2016, 5, 305-313.	2.5	18
58	Approaching the intra-class variability in multi-script static signature evaluation. , 2016, , .		10
59	A framework for liveness detection for direct attacks in the visible spectrum for multimodal ocular biometrics. Pattern Recognition Letters, 2016, 82, 232-241.	4.2	13
60	Kinematic Modelling of Diphthong Articulation. Smart Innovation, Systems and Technologies, 2016, , 53-60.	0.6	8
61	IMAFISH_ML: A fully-automated image analysis software for assessing fish morphometric traits on gilthead seabream ( <i>Sparus aurata</i> L.), meagre ( <i>Argyrosomus regius</i> ) and red porgy ( <i>Pagrus pagrus</i> ). Computers and Electronics in Agriculture, 2016, 121, 66-73.	7.7	27
62	Latent fingerprint identification using deformable minutiae clustering. Neurocomputing, 2016, 175, 851-865.	5.9	26
63	Interdigital palm region for biometric identification. Computer Vision and Image Understanding, 2016, 142, 125-133.	4.7	7
64	Application of the Lognormal Model to the Vocal Tract Movement to Detect Neurological Diseases in Voice. Smart Innovation, Systems and Technologies, 2016, , 25-35.	0.6	5
65	Genetic variants within immune-modulating genes influence the risk of developing rheumatoid arthritis and anti-TNF drug response. Pharmacogenetics and Genomics, 2015, 25, 432-443.	1.5	14
66	Efficient detection algorithm for non-coherent high-resolution radar in sea clutter. , 2015, , .		0
67	Rheumatoid arthritis response to treatment across IgG1 allotype "anti-TNF incompatibility: a case-only study. Arthritis Research and Therapy, 2015, 17, 63.	3.5	9
68	Genetic variants within the TNFRSF1B gene and susceptibility to rheumatoid arthritis and response to anti-TNF drugs. Pharmacogenetics and Genomics, 2015, 25, 323-333.	1.5	17
69	Modeling the Lexical Morphology of Western Handwritten Signatures. PLoS ONE, 2015, 10, e0123254.	2.5	22
70	Emotional states discrimination in voice in secure environments. , 2015, , .		1
71	Off-line signature stability by optical flow: Feasibility study of predicting the verifier performance. , 2015, , .		1
72	Towards an automatic on-line signature verifier using only one reference per signer. , 2015, , .		24

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73	Behaviour of dynamic and static feature dependences in constrained signatures. , 2015, , .		3
74	Earprint recognition based on an ensemble of global and local features. , 2015, , .		13
75	Novel method for early bearing fault detection based on dynamic stability measure. , 2015, , .		5
76	Temporally variable environments maintain more beta-diversity in Mediterranean landscapes. Acta Oecologica, 2015, 68, 1-10.	1.1	13
77	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
78	Robust score normalization for DTW-based on-line signature verification. , 2015, , .		38
79	Synthesis of large scale hand-shape databases for biometric applications. Pattern Recognition Letters, 2015, 68, 183-189.	4.2	5
80	A study of glottal excitation synthesizers for different voice qualities. Neurocomputing, 2015, 150, 367-376.	5.9	5
81	Static Signature Synthesis: A Neuromotor Inspired Approach for Biometrics. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 667-680.	13.9	93
82	A Survey on Traffic Light Detection. Lecture Notes in Computer Science, 2015, , 201-208.	1.3	25
83	Early Diagnosis of Neurodegenerative Diseases by Handwritten Signature Analysis. Lecture Notes in Computer Science, 2015, , 290-297.	1.3	19
84	Multiple Training - One Test Methodology for Handwritten Word-Script Identification. , 2014, , .		7
85	LPIDB v1.0 - Latent palmprint identification database. , 2014, , .		5
86	The use of hyperspectral analysis for ink identification in handwritten documents. , 2014, , .		13
87	Generation of Enhanced Synthetic Off-Line Signatures Based on Real On-Line Data. , 2014, , .		12
88	Cognitive Inspired Model to Generate Duplicated Static Signature Images. , 2014, , .		10
89	Lack of validation of genetic variants associated with anti-tumor necrosis factor therapy response in rheumatoid arthritis: a genome-wide association study replication and meta-analysis. Arthritis Research and Therapy, 2014, 16, R66.	3.5	25
90	Nonlinear dynamics characterization of emotional speech. Neurocomputing, 2014, 132, 126-135.	5.9	21

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91	A novel hand reconstruction approach and its application to vulnerability assessment. Information Sciences, 2014, 268, 103-121.	6.9	12
92	Heat loss and site-dependent fecundity in chinstrap penguins ( <i>Pygoscelis antarctica</i> ). Polar Biology, 2014, 37, 1031-1039.	1.2	9
93	Synthesis and Evaluation of High Resolution Hand-Prints. IEEE Transactions on Information Forensics and Security, 2014, 9, 1922-1932.	6.9	7
94	An approach to SWIR hyperspectral hand biometrics. Information Sciences, 2014, 268, 3-19.	6.9	21
95	Review of Automatic Fault Diagnosis Systems Using Audio and Vibration Signals. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 642-652.	9.3	219
96	Emotional speech characterization for real time applications in real environments. , 2014, , .		0
97	EMERGING ISSUES FOR STATIC HANDWRITTEN SIGNATURE BIOMETRICS. , 2014, , 111-122.		14
98	Global Selection of Features for Nonlinear Dynamics Characterization of Emotional Speech. Cognitive Computation, 2013, 5, 517-525.	5.2	4
99	Application of the Teagerâ€œKaiser energy operator in bearing fault diagnosis. ISA Transactions, 2013, 52, 278-284.	5.7	96
100	LBP Based Line-Wise Script Identification. , 2013, , .		31
101	Synthetic off-line signature image generation. , 2013, , .		46
102	Automatic scene calibration for detecting and tracking people using a single camera. Engineering Applications of Artificial Intelligence, 2013, 26, 924-935.	8.1	4
103	Vessel identification study for non-coherent high-resolution radar. , 2013, , .		0
104	Analysis of local descriptors features and its robustness applied to ear recognition. , 2013, , .		8
105	Realistic synthetic off-line signature generation based on synthetic on-line data. , 2013, , .		14
106	On the Feasibility of Interoperable Schemes in Hand Biometrics. Sensors, 2012, 12, 1352-1382.	3.8	12
107	Fault Diagnosis using Audio and Vibration Signals in a Circulating Pump. Journal of Physics: Conference Series, 2012, 364, 012135.	0.4	5
108	Voice pathology detection in continuous speech using nonlinear dynamics. , 2012, , .		6

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109	Multisampling approach applied to contactless hand biometrics. , 2012, , .		7
110	Wide band spectroscopic skin detection for contactless hand biometrics. IET Computer Vision, 2012, 6, 415-424.	2.0	5
111	Is It Possible to Automatically Identify Who Has Forged My Signature? Approaching to the Identification of a Static Signature Forger. , 2012, , .		6
112	Robustness of Offline Signature Verification Based on Gray Level Features. IEEE Transactions on Information Forensics and Security, 2012, 7, 966-977.	6.9	153
113	Thermal hand image segmentation for biometric recogniton. , 2011, , .		7
114	Looking for hand shape based biometric devices interoperability. , 2011, , .		2
115	BiSpectral contactless hand based biometric system. , 2011, , .		18
116	Off-line signature verification using local patterns. , 2011, , .		5
117	Combining different off-line handwritten character recognizers. , 2011, , .		2
118	Bimodal biometric verification based on face and lips. Neurocomputing, 2011, 74, 2407-2410.	5.9	17
119	Hand-Shape Biometrics Combining the Visible and Short-Wave Infrared Bands. IEEE Transactions on Information Forensics and Security, 2011, 6, 1305-1314.	6.9	16
120	Off-line signature verification based on grey level information using texture features. Pattern Recognition, 2011, 44, 375-385.	8.1	190
121	Looking for Hand Biometrics Interoperability. , 2011, , .		5
122	Biometric Identification Based on Hand-Shape Features Using a HMM Kernel. , 2011, , .		5
123	Multi-spectral information regarding face recognition. , 2011, , .		0
124	Incorporating color information for reliable palmprint authentication. , 2011, , .		4
125	Improved finger-knuckle-print authentication based on orientation enhancement. Electronics Letters, 2011, 47, 380.	1.0	77
126	Reducing Features Using Discriminative Common Vectors. Cognitive Computation, 2010, 2, 160-164.	5.2	3



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127	The 4NSigComp2010 Off-line Signature Verification Competition: Scenario 2. , 2010, , .		19
128	Writer identification based on graphology techniques. IEEE Aerospace and Electronic Systems Magazine, 2010, 25, 35-42.	1.3	10
129	Fingers shape biometric identification using Point Distribution Models. Electronics Letters, 2010, 46, 495.	1.0	0
130	Intra-modal biometric system using hand-geometry and palmprint texture. , 2010, , .		10
131	Signature verification using local directional pattern (LDP). , 2010, , .		19
132	Discriminative Multi-Projection Vectors: Modifying the Discriminative Common Vectors approach for face verification. , 2010, , .		2
133	Robust identification of persons by lips contour using shape transformation. , 2010, , .		5
134	Improved palmprint authentication using contactless imaging. , 2010, , .		28
135	Reducing Features from Pejibaye Palm DNA Marker for an Efficient Classification. Lecture Notes in Computer Science, 2010, , 152-162.	1.3	0
136	Bubbles Detection on Sea Surface Images. Lecture Notes in Computer Science, 2010, , 565-568.	1.3	0
137	Automatic Arrhythmia Detection. , 2010, , 204-218.		0
138	Offline Signature Verification Based on Pseudo-Cepstral Coefficients. , 2009, , .		21
139	Infrared hand dorsum images for identification. Electronics Letters, 2009, 45, 306.	1.0	30
140	Characterization of Healthy and Pathological Voice Through Measures Based on Nonlinear Dynamics. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 1186-1195.	3.2	115
141	Discriminative common vector for face identification. , 2009, , .		4
142	Face Identification based on TV videos. , 2009, , .		1
143	Hand geometry identification system performance. , 2009, , .		17
144	Detection of obstructive sleep apnea in ECG recordings using time-frequency distributions and dynamic features. , 2009, 2009, 5559-62.		40

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145	Combining hand biometric traits for personal identification. , 2009, , .		10
146	Handwriting Knowledge Based on Parameterization for Writer Identification. Lecture Notes in Electrical Engineering, 2009, , 3-13.	0.4	1
147	Improving a Leaves Automatic Recognition Process Using PCA. Advances in Soft Computing, 2009, , 243-251.	0.4	3
148	Angular Contour Parameterization for Signature Identification. Lecture Notes in Computer Science, 2009, , 358-365.	1.3	2
149	Neural Networks on Handwritten Signature Verification. , 2009, , 1232-1237.		1
150	Automatic System Identification of Tissue Abnormalities Based on 2D Bâ€“Mode Ultrasound Images. Lecture Notes in Computer Science, 2009, , 137-142.	1.3	0
151	Writer identification based on graphology techniques. , 2008, , .		2
152	Influence of the pegs number and distribution on a biometric device based on hand geometry. , 2008, , .		5
153	Comparing infrared and visible illumination for contactless hand based biometric scheme. , 2008, , .		29
154	Off-line Handwritten Signature GPDS-960 Corpus. Proc Int Conf Doc Anal Recognit, 2007, , .	0.0	83
155	Arbitrary illumination conditions for facial identification. , 2007, , .		1
156	HESPERIA: homeland security technologies for the security in public spaces and infrastructures. , 2007, , .		2
157	Off-line Signature Verification System Performance against Image Acquisition Resolution. Proc Int Conf Doc Anal Recognit, 2007, , .	0.0	1
158	Low Cost Multimodal Biometric identification System Based on Hand Geometry, Palm and Finger Print Texture. , 2007, , .		51
159	Authentication of Individuals using Hand Geometry Biometrics: A Neural Network Approach. Neural Processing Letters, 2007, 26, 201-216.	3.2	23
160	Using Fisher Kernel on 2D-Shape Identification. Lecture Notes in Computer Science, 2007, , 740-746.	1.3	0
161	Evaluation of Supervised vs. Non Supervised Databases for Hand Geometry Verification. , 2007, , 1122-1129.		0
162	Multimodal Biometric System based on Hand Geometry and Palm Print Texture. , 2006, , .		8

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163	Evaluation of supervised vs. non supervised databases for hand geometry identification. , 2006, , .		5
164	Using hand knuckle texture for biometric identifications. IEEE Aerospace and Electronic Systems Magazine, 2006, 21, 23-27.	1.3	18
165	Biometric based on ridges of palm skin over the head of the second metacarpal bone. Electronics Letters, 2006, 42, 391.	1.0	3
166	Optimal Size of Time Window in Nonlinear Features for Voice Quality Measurement. Lecture Notes in Computer Science, 2006, , 206-218.	1.3	1
167	Offline geometric parameters for automatic signature verification using fixed-point arithmetic. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 993-997.	13.9	266
168	Image Processing Techniques for Braille Writing Recognition. Lecture Notes in Computer Science, 2005, , 379-385.	1.3	16
169	Slant estimation of handwritten characters by means of Zernike moments. Electronics Letters, 2005, 41, 1110.	1.0	9
170	Automatic Detection of Pathologies in The Voice by HOS Based Parameters. Eurasip Journal on Advances in Signal Processing, 2001, 2001, 275-284.	1.7	78
171	Influence of initialisation and stop criteria on HMM based recognisers. Electronics Letters, 2000, 36, 1165.	1.0	12
172	Efficient adaptive vector quantization of LPC parameters. IEEE Transactions on Speech and Audio Processing, 1995, 3, 314-317.	1.5	3
173	A New Approach for High Pressure Pixel Polar Distribution on Off-line Signature Verification. Tecno LÁ <sup>3</sup> gicas, 0, , 73.	0.3	0