Carmen SÃ¡nchez-Ãvila

List of Publications by Year
in descending order

59 papers	827 citations	840585 11 h-index	580701 25 g-index
62 all docs	62 docs citations	62 times ranked	875 citing authors

#	Article	IF	Citations
1	A Stress-Detection System Based on Physiological Signals and Fuzzy Logic. IEEE Transactions on Industrial Electronics, 2011, 58, 4857-4865.	5.2	148
2	Two different approaches for iris recognition using Gabor filters and multiscale zero-crossing representation. Pattern Recognition, 2005, 38, 231-240.	5.1	104
3	Analysis of pattern recognition techniques for in-air signature biometrics. Pattern Recognition, 2011, 44, 2468-2478.	5.1	75
4	Modeling and Detecting Aggressiveness From Driving Signals. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1419-1428.	4.7	59
5	Authentication in mobile devices through hand gesture recognition. International Journal of Information Security, 2012, 11, 65-83.	2.3	51
6	Stress detection by means of stress physiological template. , 2011, , .		33
7	Analysis of pattern recognition and dimensionality reduction techniques for odor biometrics. Knowledge-Based Systems, 2013, 52, 279-289.	4.0	33
8	Unconstrained and Contactless Hand Geometry Biometrics. Sensors, 2011, 11, 10143-10164.	2.1	25
9	Silhouette-based hand recognition on mobile devices. , 2009, , .		21
10	Two Stress Detection Schemes Based on Physiological Signals for Real-Time Applications. , 2010, , .		20
11	Graphâ€based unsupervised segmentation algorithm for cultured neuronal networks' structure characterization and modeling. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 513-523.	1.1	18
12	Wearable Technology to Detect Motor Fluctuations in Parkinsonâ€™s Disease Patients: Current State and Challenges. Sensors, 2021, 21, 4188.	2.1	18
13	Supervised classification methods applied to keystroke dynamics through mobile devices. , 2014, , .		17
14	Time series distances measures to analyze in-air signatures to authenticate users on mobile phones. , 2011, , .		12
15	Score optimization and template updating in a biometric technique for authentication in mobiles based on gestures. Journal of Systems and Software, 2011, 84, 2013-2021.	3.3	12
16	Analysis of local binary patterns and uniform local binary patterns for palm vein biometric recognition. , 2017, , .		11
17	Deep Learning for Facial Recognition on Single Sample per Person Scenarios with Varied Capturing Conditions. Applied Sciences (Switzerland), 2019, 9, 5474.	1.3	11
18	An adaptive regularized method for deconvolution of signals with edges by convex projections. IEEE Transactions on Signal Processing, 1994, 42, 1849-1851.	3.2	10

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19	gb2s Î¼ MOD: A MUltiMODal biometric video database using visible and IR light. Information Fusion, 2016, 32, 64-79.	11.7	10
20	Quality Measurements for Iris Images in Biometrics. , 2007, , .		9
21	Principal component analysis for ear-based biometric verification. , 2017, , .		9
22	SPEED-INDEPENDENT GAIT IDENTIFICATION FOR MOBILE DEVICES. International Journal of Pattern Recognition and Artificial Intelligence, 2012, 26, 1260013.	0.7	8
23	Deep learning for face recognition on mobile devices. IET Biometrics, 2020, 9, 109-117.	1.6	8
24	Low computational cost multilayer graph-based segmentation algorithms for hand recognition on mobile phones. , 2014, , .		7
25	Wavelet domain signal deconvolution with singularity-preserving regularization. Mathematics and Computers in Simulation, 2003, 61, 165-176.	2.4	6
26	Hand Biometric Segmentation by Means of Fuzzy Multiscale Aggregation for Mobile Devices. , 2010, , .		6
27	Comfort and Security Perception of Biometrics in Mobile Phones with Widespread Sensors. , 2016, , .		6
28	New POCS algorithms for regularization of inverse problems. Journal of Computational and Applied Mathematics, 1996, 72, 21-39.	1.1	5
29	Gaussian multiscale aggregation oriented to hand biometric segmentation in mobile devices. , 2011, , .		5
30	An approach to hand biometrics in mobile devices. Signal, Image and Video Processing, 2011, 5, 469-475.	1.7	5
31	Secure access control by means of human stress detection. , 2011, , .		5
32	Evaluation methodology for fake samples detection in biometrics. , 2008, , .		4
33	A robustness verification system for mobile phone authentication based on gestures using Linear Discriminant Analysis. , 2011, , .		4
34	Hierarchical Agglomerative Clustering of Bicycle Sharing Stations Based on Ultra-Light Edge Computing. Sensors, 2020, 20, 3550.	2.1	4
35	A Mobile-Oriented Hand Segmentation Algorithm Based on Fuzzy Multiscale Aggregation. Lecture Notes in Computer Science, 2010, , 479-488.	1.0	4
36	A nonlinear adaptive wavelet-based method for spiky deconvolution. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 4937-4948.	0.6	3

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37	A fuzzy DNA-based algorithm for identification and authentication in an Iris Detection System. , 2008, , .		3
38	A SEQUENCE ALIGNMENT APPROACH APPLIED TO A MOBILE AUTHENTICATION TECHNIQUE BASED ON GESTURES. International Journal of Pattern Recognition and Artificial Intelligence, 2013, 27, 1356006.	0.7	3
39	A comparative survey on supervised classifiers for face recognition. , 2014, , .		3
40	Cryptobiometrics for the Generation of Cancellable Symmetric and Asymmetric Ciphers with Perfect Secrecy. Mathematics, 2020, 8, 1536.	1.1	3
41	Behavior of nonlinear pocs higher order algorithms in the deconvolution problem. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 4909-4914.	0.6	2
42	BREAKING A SC-CNN-BASED CHAOTIC MASKING SECURE COMMUNICATION SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 1329-1338.	0.7	2
43	Study of the effect of blurriness in image acquisition for hand biometrics in mobile devices. , 2011, , .		2
44	Gaussian Multiscale Aggregation Applied to Segmentation in Hand Biometrics. Sensors, 2011, 11, 11141-11156.	2.1	2
45	A Configurable Multibiometric System for Authentication at Different Security Levels Using Mobile Devices. , 2016, , .		2
46	Curvelets for contact-less hand biometrics under varied environmental conditions. , 2017, , .		2
47	Four Versions of the Christus by the Massys: Deciphering the Meaning of the Letters. Religions, 2017, 8, 19.	0.3	2
48	Floodingâ€based segmentation for contactless hand biometrics oriented to mobile devices. IET Biometrics, 2018, 7, 431-438.	1.6	2
49	A wavelet-based method for solving discrete first-kind Fredholm equations with piecewise constant solutions. International Journal for Numerical Methods in Engineering, 2003, 57, 577-598.	1.5	1
50	Information technology security using cryptography. IEEE Aerospace and Electronic Systems Magazine, 2003, 18, 21-24.	2.3	1
51	A comparative study of palmprint feature extraction methods for contact-less biometrics under different environmental conditions. , 2017, , .		1
52	Linguistic Decipherment of the Lettering on the (Original) Carving of the Virgin of Candelaria from Tenerife (Canary Islands). Religions, 2017, 8, 135.	0.3	1
53	Graphemic-phonetic diachronic linguistic invariance of the frequency and of the Index of Coincidence as cryptanalytic tools. PLoS ONE, 2019, 14, e0213710.	1.1	1
54	Data-Driven Analysis of Bicycle Sharing Systems as Public Transport Systems Based on a Trip Index Classification. Sensors, 2020, 20, 4315.	2.1	1

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55	Some Notes on a Formal Algebraic Structure of Cryptology. Mathematics, 2021, 9, 2183.	1.1	1
56	Iris segmentation based on Fuzzy Mathematical Morphology, Neural Networks and ontologies. , 2009, , .		0
57	New Proof That the Sum of the Reciprocals of Primes Diverges. Mathematics, 2020, 8, 1414.	1.1	0
58	A Comparative Evaluation of Gaussian Multiscale Aggregation for Hand Biometrics. Communications in Computer and Information Science, 2012, , 388-399.	0.4	0
59	La inscripciÃ³n de la talla original de Nuestra SeÃ±ora de Candelaria de las islas Canarias segÃºn las fuentes documentales impresas. Hispania Sacra, 2020, 72, 191.	0.1	0