

Claudio A Perez

List of Publications by Year in descending order

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92
papers

2,487
citations

331259

21
h-index

214527

47
g-index

92
all docs

92
docs citations

92
times ranked

2297
citing authors

#	ARTICLE	IF	CITATIONS
1	Normalized Mutual Information Feature Selection. IEEE Transactions on Neural Networks, 2009, 20, 189-201.	4.8	931
2	Gender Classification Based on Fusion of Different Spatial Scale Features Selected by Mutual Information From Histogram of LBP, Intensity, and Shape. IEEE Transactions on Information Forensics and Security, 2013, 8, 488-499.	4.5	118
3	Ore grade estimation by feature selection and voting using boundary detection in digital image analysis. International Journal of Mineral Processing, 2011, 101, 28-36.	2.6	82
4	Subscription fraud prevention in telecommunications using fuzzy rules and neural networks. Expert Systems With Applications, 2006, 31, 337-344.	4.4	76
5	Fusion of local normalization and Gabor entropy weighted features for face identification. Pattern Recognition, 2014, 47, 568-577.	5.1	76
6	Gender Classification From the Same Iris Code Used for Recognition. IEEE Transactions on Information Forensics and Security, 2016, 11, 1760-1770.	4.5	76
7	Methodological improvement on local Gabor face recognition based on feature selection and enhanced Borda count. Pattern Recognition, 2011, 44, 951-963.	5.1	63
8	An accurate skull stripping method based on simplex meshes and histogram analysis for magnetic resonance images. Journal of Neuroscience Methods, 2012, 206, 103-119.	1.3	61
9	Polysomnographic pattern recognition for automated classification of sleep-waking states in infants. Medical and Biological Engineering and Computing, 2002, 40, 105-113.	1.6	59
10	Extracting Fuzzy Rules From Polysomnographic Recordings for Infant Sleep Classification. IEEE Transactions on Biomedical Engineering, 2006, 53, 1954-1962.	2.5	51
11	Automated Sleep-Spindle Detection in Healthy Children Polysomnograms. IEEE Transactions on Biomedical Engineering, 2010, 57, 2135-2146.	2.5	48
12	Face recognition under pose variation with local Gabor features enhanced by Active Shape and Statistical Models. Pattern Recognition, 2015, 48, 3371-3384.	5.1	44
13	Genetic design of biologically inspired receptive fields for neural pattern recognition. IEEE Transactions on Systems, Man, and Cybernetics, 2003, 33, 258-270.	5.5	43
14	Face and iris localization using templates designed by particle swarm optimization. Pattern Recognition Letters, 2010, 31, 857-868.	2.6	37
15	Gender Classification From Face Images Using Mutual Information and Feature Fusion. International Journal of Optomechatronics, 2012, 6, 92-119.	3.3	37
16	Classification of sleep stages in infants: a neuro fuzzy approach. IEEE Engineering in Medicine and Biology Magazine, 2002, 21, 147-151.	1.1	35
17	Grindability soft-sensors based on lithological composition and on-line measurements. Minerals Engineering, 2001, 14, 689-700.	1.8	32
18	Rock lithological classification using multi-scale Gabor features from sub-images, and voting with rock contour information. International Journal of Mineral Processing, 2015, 144, 56-64.	2.6	32

#	ARTICLE	IF	CITATIONS
19	Face and eye tracking algorithm based on digital image processing. , 0, , .		31
20	Real-Time Iris Detection on Coronal-Axis-Rotated Faces. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 971-978.	3.3	29
21	Classification of rock lithology by laser range 3D and color images. International Journal of Mineral Processing, 2017, 160, 47-57.	2.6	27
22	Expert-system classification of sleep/waking states in infants. Medical and Biological Engineering and Computing, 1999, 37, 466-476.	1.6	25
23	Two-point vibrotactile discrimination related to parameters of pulse burst stimulus. Medical and Biological Engineering and Computing, 2000, 38, 74-79.	1.6	24
24	Gender Classification from Iris Images Using Fusion of Uniform Local Binary Patterns. Lecture Notes in Computer Science, 2015, , 751-763.	1.0	22
25	Rock lithological classification by hyperspectral, range 3D and color images. Chemometrics and Intelligent Laboratory Systems, 2019, 189, 138-148.	1.8	17
26	Effect of tactile stimulation pulse characteristics on sensation threshold and power consumption. Annals of Biomedical Engineering, 1989, 17, 423-435.	1.3	15
27	Linear Versus Nonlinear Neural Modeling for 2-D Pattern Recognition. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2005, 35, 955-964.	3.4	15
28	Trademark Image Retrieval Using a Combination of Deep Convolutional Neural Networks. , 2018, , .		15
29	A 3D Iris Scanner From a Single Image Using Convolutional Neural Networks. IEEE Access, 2020, 8, 98584-98599.	2.6	15
30	Local matching Gabor entropy weighted face recognition. , 2011, , .		14
31	Real-Time Template Based Face and Iris Detection on Rotated Faces. International Journal of Optomechatronics, 2009, 3, 54-67.	3.3	13
32	Coincidence-enhanced stochastic resonance: Experimental evidence challenges the psychophysical theory behind stochastic resonance. Neuroscience Letters, 2007, 424, 31-35.	1.0	12
33	Colorâ€™Texture Pattern Classification Using Globalâ€™Local Feature Extraction, an SVM Classifier, with Bagging Ensemble Post-Processing. Applied Sciences (Switzerland), 2019, 9, 3130.	1.3	11
34	Dual approach for automated sleep spindles detection within EEG background activity in infant polysomnograms. , 2004, 2006, 566-9.		10
35	Registration of renal SPECT and 2.5D US images. Computerized Medical Imaging and Graphics, 2011, 35, 302-314.	3.5	10
36	The histogram Poisson, labeled multi-Bernoulli multi-target tracking filter. Signal Processing, 2020, 176, 107714.	2.1	10

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37	Improvements on handwritten digit recognition by genetic selection of neural network topology and by augmented training. , 0, , .		9
38	Design of a virtual keyboard based on iris tracking. , 0, , .		9
39	Genetic improvements in illumination compensation by the discrete cosine transform and local normalization for face recognition. , 2008, , .		9
40	Illumination compensation for face recognition by genetic optimization of the Self-Quotient Image method. , 2009, , .		9
41	Lithological classification based on Gabor texture image analysis. , 2012, , .		9
42	A method for 3D iris reconstruction from multiple 2D near-infrared images. , 2017, , .		9
43	Gender Classification From NIR Images by Using Quadrature Encoding Filters of the Most Relevant Features. IEEE Access, 2019, 7, 29114-29127.	2.6	9
44	Two-Level Genetic Algorithm for Evolving Convolutional Neural Networks for Pattern Recognition. IEEE Access, 2021, 9, 126856-126872.	2.6	9
45	Rock lithological instance classification by hyperspectral images using dimensionality reduction and deep learning. Chemometrics and Intelligent Laboratory Systems, 2022, 224, 104538.	1.8	9
46	Improvements on handwritten digit recognition by cooperation of modular neural networks. , 0, , .		8
47	Genetic optimisation of illumination compensation methods in cascade for face recognition. Electronics Letters, 2010, 46, 498.	0.5	8
48	Illumination compensation method for local matching Gabor face classifier. , 2010, , .		8
49	A New Method for Online Retinal Optic-Disc Detection Based on Cascade Classifiers. , 2013, , .		8
50	Spatially coincident vibrotactile noise improves subthreshold stimulus detection. PLoS ONE, 2017, 12, e0186932.	1.1	8
51	Color image segmentation using fuzzy min-max neural networks. , 0, , .		7
52	Face Detection using PSO Template Selection. , 2006, , .		7
53	A critical experimental study of the classical tactile threshold theory. BMC Neuroscience, 2010, 11, 76.	0.8	7
54	Gender Classification Using One Half Face and Feature Selection Based on Mutual Information. , 2013, , .		7

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55	A balanced sleep/wakefulness classification method based on actigraphic data in adolescents. , 2014, 2014, 4188-91.		7
56	A Dirac Delta mixture-based Random Finite Set filter. , 2015, , .		7
57	Clusters of Features Using Complementary Information Applied to Gender Classification From Face Images. IEEE Access, 2019, 7, 79374-79387.	2.6	7
58	A 3D Iris Scanner From Multiple 2D Visible Light Images. IEEE Access, 2019, 7, 61461-61472.	2.6	7
59	Iris Recognition: Comparing Visible-Light Lateral and Frontal Illumination to NIR Frontal Illumination. , 2019, , .		7
60	Nonlinear Projection Using Geodesic Distances and the Neural Gas Network. Lecture Notes in Computer Science, 2006, , 464-473.	1.0	7
61	Power requirements for vibrotactile piezo-electric and electromechanical transducers. Medical and Biological Engineering and Computing, 2003, 41, 718-726.	1.6	5
62	Extracting Structured Supervision From Captions for Weakly Supervised Semantic Segmentation. IEEE Access, 2021, 9, 65702-65720.	2.6	5
63	Iris Recognition Using Low-Level CNN Layers Without Training and Single Matching. IEEE Access, 2022, 10, 41276-41286.	2.6	5
64	Real-time iris detection on faces with coronal axis rotation. , 0, , .		4
65	Gamma-filter self-organising neural networks for unsupervised sequence processing. Electronics Letters, 2011, 47, 494.	0.5	4
66	Automatic Safety Video Surveillance-Tracking System to Avoid Vehicle-Workers Interaction for Mining Applications. , 2014, , .		4
67	Face recognition under pose variation with active shape model to adjust Gabor filter kernels and to correct feature extraction location. , 2015, , .		4
68	The $\hat{\Gamma}$ -generalized multi-Bernoulli poisson filter in a multi-sensor application. , 2017, , .		4
69	Automatic space object detection on all-sky images from a synoptic survey synthetic telescope array. Advances in Space Research, 2020, 65, 337-350.	1.2	4
70	Two point vibrotactile spatial resolution as a function of pulse frequency and pulse width. , 0, , .		3
71	Vibrotactile sensation thresholds related to parameters of a pulse burst stimulus. , 0, , .		3
72	Classification of sleep stages in infants: a neuro fuzzy approach. , 0, , .		3

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73	Designing biologically inspired receptive fields for neural pattern recognition technology. , 0, , .		3
74	Real-time iris detection on rotated faces. , 2003, , .		3
75	Illumination normalisation method using Kolmogorovâ€Nagumoâ€based statistics for face recognition. Electronics Letters, 2014, 50, 940-942.	0.5	3
76	3D Iris Recognition using Spin Images. , 2020, , .		3
77	Genetic selection of non-linear product terms in the inputs to a linear classifier for handwritten digit recognition. , 0, , .		2
78	Optimization of one and two hidden layer neural network architectures for handwritten digit recognition. , 0, , .		2
79	Genetic selection of multilayer neural networks for handwritten digit recognition to aid the blind. , 0, , .		2
80	Classification of sleep-waking states using modular neural networks. , 0, , .		2
81	Neural versus difference equation modeling for 2D pattern recognition problems. , 0, , .		2
82	Directional templates for real-time detection of coronal axis rotated faces. , 2004, , .		2
83	Automated detection of Rapid Eye Movements in children. , 2012, 2012, 2267-70.		2
84	Single trial P300 detection in children using expert knowledge and SOM. , 2014, 2014, 3801-4.		2
85	Sleep-spindle identification on EEG signals from polysomnographie recordings using correntropy. , 2016, 2016, 3736-3739.		2
86	Improved handwritten digit recognition system based on fuzzy rules and prototypes created by Euclidean distance. , 0, , .		1
87	Pattern Detection Using a New Haralick Quaternion Color Extraction Model and Support Vector Machine Classifier. , 2013, , .		1
88	Experimental system to investigate nonsequential presentation of tactile patterns. , 1992, , .		0
89	Power consumption in a piezoceramic transducer for vibrotactile excitation. , 0, , .		0
90	Log-Linear Elliptic Transform for Frontal-Face Parameter Estimation. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
91	Experimental System To Investigate Nonsequential Presentation Of Tactile Patterns. , 1992, , .		0
92	Biologically inspired receptive field geometry and orientation for pattern recognition enhancement. , 0, , .		0