Humberto Sossa

List of Publications by Year
in descending order

195 papers	2,231 citations	331259 21 h-index	301761 39 g-index
215 all docs	215 docs citations	215 times ranked	1869 citing authors

#	Article	IF	Citations
1	A comparison of nature inspired algorithms for multi-threshold image segmentation. Expert Systems With Applications, 2013, 40, 1213-1219.	4.4	138
2	On the computation of the Euler number of a binary object. Pattern Recognition, 1996, 29, 471-476.	5.1	105
3	Circle detection using electro-magnetism optimization. Information Sciences, 2012, 182, 40-55.	4.0	103
4	Retinal vessel extraction using Lattice Neural Networks with dendritic processing. Computers in Biology and Medicine, 2015, 58, 20-30.	3.9	101
5	A multi-threshold segmentation approach based on Artificial Bee Colony optimization. Applied Intelligence, 2012, 37, 321-336.	3.3	92
6	Hybrid neural networks for big data classification. Neurocomputing, 2020, 390, 327-340.	3.5	88
7	Spiking Neural Networks applied to the classification of motor tasks in EEG signals. Neural Networks, 2020, 122, 130-143.	3.3	75
8	Efficient training for dendrite morphological neural networks. Neurocomputing, 2014, 131, 132-142.	3.5	64
9	Block matching algorithm for motion estimation based on Artificial Bee Colony (ABC). Applied Soft Computing Journal, 2013, 13, 3047-3059.	4.1	54
10	Adaptive and intelligent web based education system: Towards an integral architecture and framework. Expert Systems With Applications, 2007, 33, 1076-1089.	4.4	49
11	A parametric method applied to phase recovery from a fringe pattern based on a genetic algorithm. Optics Communications, 2002, 203, 213-223.	1.0	43
12	Polyhedral object recognition by indexing. Pattern Recognition, 1995, 28, 1855-1870.	5.1	42
13	Differential evolution training algorithm for dendrite morphological neural networks. Applied Soft Computing Journal, 2018, 68, 303-313.	4.1	41
14	Design of artificial neural networks using a modified Particle Swarm Optimization algorithm. , 2009, , .		39
15	Artificial neural network synthesis by means of artificial bee colony (ABC) algorithm. , 2011, , .		38
16	Dendrite morphological neurons trained by stochastic gradient descent. Neurocomputing, 2017, 260, 420-431.	3.5	35
17	Activity theory as a framework for building adaptive e-learning systems: A case to provide empirical evidence. Computers in Human Behavior, 2014, 30, 131-145.	5.1	33
18	A New Associative Model with Dynamical Synapses. Neural Processing Letters, 2008, 28, 189-207.	2.0	31

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19	Dendrite morphological neural networks for motor task recognition from electroencephalographic signals. Biomedical Signal Processing and Control, 2018, 44, 12-24.	3.5	30
20	Spatio-temporal analysis for obstacle detection in agricultural videos. Applied Soft Computing Journal, 2016, 45, 86-97.	4.1	28
21	A Bidirectional Hetero-Associative Memory for True-Color Patterns. Neural Processing Letters, 2008, 28, 131-153.	2.0	27
22	Self organizing natural scene image retrieval. Expert Systems With Applications, 2013, 40, 2398-2409.	4.4	27
23	Causal knowledge and reasoning by cognitive maps: Pursuing a holistic approach. Expert Systems With Applications, 2008, 35, 2-18.	4.4	24
24	Automatic path planning for a mobile robot among obstacles of arbitrary shape. IEEE Transactions on Systems, Man, and Cybernetics, 1998, 28, 467-472.	5.5	23
25	An improved parallel algorithm for thinning digital patterns. Pattern Recognition Letters, 1989, 10, 77-80.	2.6	22
26	PD+SMC Quadrotor Control for Altitude and Crack Recognition Using Deep Learning. International Journal of Control, Automation and Systems, 2020, 18, 834-844.	1.6	22
27	Stabilization of the Furuta Pendulum Based on a Lyapunov Function. Nonlinear Dynamics, 2007, 49, 1-8.	2.7	21
28	Design of Artificial Neural Networks Using Differential Evolution Algorithm. Lecture Notes in Computer Science, 2010, , 201-208.	1.0	20
29	Fully Convolutional Networks for Automatic Pavement Crack Segmentation. Computacion Y Sistemas, 2019, 23, .	0.2	20
30	Multithreshold Segmentation Based on Artificial Immune Systems. Mathematical Problems in Engineering, 2012, 2012, 1-20.	0.6	18
31	A backstepping-based procedure with saturation functions to control the PVTOL system. Nonlinear Dynamics, 2016, 83, 1247-1257.	2.7	18
32	Computing geometric moments using morphological erosions. Pattern Recognition, 2001, 34, 271-276.	5.1	17
33	Computing the Euler Number of a Binary Image Based on a Vertex Codification. Journal of Applied Research and Technology, 2013, 11, 360-370.	0.6	17
34	A bio-inspired evolutionary algorithm: allostatic optimisation. International Journal of Bio-Inspired Computation, 2016, 8, 154.	0.6	17
35	On the accuracy and computational cost of spiking neuron implementation. Neural Networks, 2020, 122, 196-217.	3.3	17
36	Transforming Fundamental Set of Patterns to a Canonical Form to Improve Pattern Recall. Lecture Notes in Computer Science, 2004, , 687-696.	1.0	17

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37	Window fringe pattern demodulation by multi-functional fitting using a genetic algorithm. Optics Communications, 2006, 261, 231-239.	1.0	16
38	Behavior of morphological associative memories with true-color image patterns. Neurocomputing, 2009, 73, 225-244.	3.5	16
39	Towards automatic inspection: crack recognition based on Quadrotor UAV-taken images. , 2018, , .		16
40	Dendrite ellipsoidal neurons based on k-means optimization. Evolving Systems, 2019, 10, 381-396.	2.4	16
41	Preliminary results on UAV-based forest fire localization based on decisional navigation. , 2015, , .		15
42	Rock Detection in a Mars-Like Environment Using a CNN. Lecture Notes in Computer Science, 2019, , 149-158.	1.0	15
43	Stabilization of the inverted spherical pendulum via Lyapunov approach. Asian Journal of Control, 2009, 11, 587-594.	1.9	14
44	Predictive student model supported by fuzzy-causal knowledge and inference. Expert Systems With Applications, 2012, 39, 4690-4709.	4.4	13
45	Evolving ant colony system for optimizing path planning in mobile robots. , 2007, , .		12
46	Comparative analysis of texture descriptors in maize fields with plants, soil and object discrimination. Precision Agriculture, 2017, 18, 717-735.	3.1	12
47	Reinforcement Learning Compensation based PD Control for Inverted Pendulum. , 2018, , .		12
48	Smooth dendrite morphological neurons. Neural Networks, 2021, 136, 40-53.	3.3	12
49	New Associative Memories to Recall Real-Valued Patterns. Lecture Notes in Computer Science, 2004, , 195-202.	1.0	12
50	Path Planning Optimization Using Bio-Inspirited Algorithms. , 2006, , .		11
51	A New Two-Level Associative Memory for Efficient Pattern Restoration. Neural Processing Letters, 2006, 25, 1-16.	2.0	11
52	Alternative formulations to compute the binary shape Euler number. IET Computer Vision, 2014, 8, 171-181.	1.3	11
53	Image Processing for Automatic Reading of Electro-Mechanical Utility Meters. , 2013, , .		10
54	Reinforcement Learning Compensation based PD Control for a Double Inverted Pendulum. IEEE Latin America Transactions, 2019, 17, 323-329.	1.2	10

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55	Low Frequency Response and Random Feature Selection Applied to Face Recognition. Lecture Notes in Computer Science, 2007, , 818-830.	1.0	10
56	Lyapunov Approach for the stabilization of the Inverted Spherical Pendulum. , 2006, , .		9
57	An Educational Fuzzy-Based Control Platform Using LEGO Robots. International Journal of Electrical Engineering and Education, 2013, 50, 157-171.	0.4	9
58	Dendrite Morphological Neural Networks trained by Differential Evolution. , 2016, , .		9
59	3D motion tracking of the shoulder joint with respect to the thorax using MARG sensors and data fusion algorithm. Biocybernetics and Biomedical Engineering, 2020, 40, 1205-1224.	3.3	9
60	3D Object Recognition Based on Low Frequency Response and Random Feature Selection. Lecture Notes in Computer Science, 2007, , 694-704.	1.0	9
61	Blood Vessel Segmentation in Retinal Images Using Lattice Neural Networks. Lecture Notes in Computer Science, 2013, , 532-544.	1.0	9
62	Associative Memories Applied to Image Categorization. Lecture Notes in Computer Science, 2006, , 549-558.	1.0	8
63	Control of the Furuta Pendulum by using a Lyapunov function. , 2006, , .		8
64	A Segmentation Algorithm Based on an Iterative Computation of the Mean Shift Filtering. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 63, 447-463.	2.0	8
65	Wavelet transforms and neural networks applied to image retrieval. , 2006, , .		7
66	Random Features Applied to Face Recognition. , 2007, , .		7
67	The Euler-PoincarÃ© Formula Through Contact Surfaces of Voxelized Objects. Journal of Applied Research and Technology, 2013, 11, 65-78.	0.6	7
68	Improving pattern classification of DNA microarray data by using PCA and logistic regression. Intelligent Data Analysis, 2016, 20, S53-S67.	0.4	7
69	Generating exponentially stable states for a Hopfield Neural Network. Neurocomputing, 2018, 275, 358-365.	3.5	7
70	Classification of Motor Imagery EEG Signals with CSP Filtering Through Neural Networks Models. Lecture Notes in Computer Science, 2018, , 123-135.	1.0	7
71	Decision Making by Rule-Based Fuzzy Cognitive Maps: An Approach to Implement Student-Centered Education. Intelligent Systems Reference Library, 2014, , 107-120.	1.0	7
72	Associative Gray Level Pattern Processing using Binary Decomposition and Î± Î² Memories. Neural Processing Letters, 2005, 22, 85-111.	2.0	6

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73	A comparison between two robust techniques for segmentation of blood vessels. Computers in Biology and Medicine, 2008, 38, 931-940.	3.9	6
74	Low cost human computer interface voluntary eye movement as communication system for disabled people with limited movements. , 2011, , .		6
75	Classification of Motor States from Brain Rhythms Using Lattice Neural Networks. Lecture Notes in Computer Science, 2016, , 303-312.	1.0	6
76	Study of the Influence of Noise in the Values of a Median Associative Memory. Lecture Notes in Computer Science, 2007, , 55-62.	1.0	6
77	Proactive Sequencing Based on a Causal and Fuzzy Student Model. Smart Innovation, Systems and Technologies, 2013, , 49-76.	0.5	6
78	Modified Dendrite Morphological Neural Network Applied to 3D Object Recognition. Lecture Notes in Computer Science, 2013, , 314-324.	1.0	6
79	Semantic Representation and Management of Student Models: An Approach to Adapt Lecture Sequencing to Enhance Learning. Lecture Notes in Computer Science, 2010, , 175-186.	1.0	6
80	Real-valued pattern classification based on extended associative memory. , 0, , .		5
81	A New Bi-directional Associative Memory. Lecture Notes in Computer Science, 2006, , 367-380.	1.0	5
82	A computational approach for modeling the infant vision system in object and face recognition. BMC Neuroscience, 2007, 8, .	0.8	5
83	3D Object Recognition Based on Some Aspects of the Infant Vision System and Associative Memory. Cognitive Computation, 2010, 2, 86-96.	3.6	5
84	An Evolutionary Feature-Based Visual Attention Model Applied to Face Recognition. Lecture Notes in Computer Science, 2010, , 376-384.	1.0	5
85	Digital shape compactness measure by means of perimeter ratios. Electronics Letters, 2014, 50, 171-173.	0.5	5
86	Classification of Hand Movements from Non-invasive Brain Signals Using Lattice Neural Networks with Dendritic Processing. Lecture Notes in Computer Science, 2015, , 23-32.	1.0	5
87	Dendrite Ellipsoidal Neuron. , 2017, , .		5
88	Efficient FPGA Hardware Implementation for Robot Manipulator Kinematic Modeling Using Rational Trigonometry. IEEE Latin America Transactions, 2019, 17, 1524-1536.	1.2	5
89	A Landscape of Learning Analytics: An Exercise to Highlight the Nature of an Emergent Field. Studies in Systems, Decision and Control, 2017, , 65-112.	0.8	5
90	Ontology Agent Based Rule Base Fuzzy Cognitive Maps. Lecture Notes in Computer Science, 2007, , 328-337.	1.0	5

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91	EFFICIENT LANE DETECTION BASED ON ARTIFICIAL NEURAL NETWORKS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-4/W3, 13-19.	0.0	5
92	Vision-Based Blind Spot Warning System by Deep Neural Networks. Lecture Notes in Computer Science, 2020, , 185-194.	1.0	5
93	Multi-subject classification of Motor Imagery EEG signals using transfer learning in neural networks. , 2021, 2021, 1006-1009.		5
94	Neuron cell count with deep learning in highly dense hippocampus images. Expert Systems With Applications, 2022, 208, 118090.	4.4	5
95	Behavioural study of median associative memory under true-colour image patterns. Neurocomputing, 2011, 74, 2985-2997.	3.5	4
96	Dendrite morphological neurons trained by stochastic gradient descent. , 2016, , .		4
97	Morphological-Linear Neural Network. , 2018, , .		4
98	Hetero-Associative Memories for Voice Signal and Image Processing. Lecture Notes in Computer Science, 2008, , 659-666.	1.0	4
99	Title is missing!. Journal of Mathematical Imaging and Vision, 2000, 12, 137-154.	0.8	3
100	Object counting without conglomerate separation. , 0, , .		3
101	Image Retrieval based on Wavelet Computation and Neural Network Classification. , 2007, , .		3
102	Pattern Analysis in DNA Microarray Data through PCA-Based Gene Selection. Lecture Notes in Computer Science, 2014, , 532-539.	1.0	3
103	Computing the 2-D image euler number by an Artificial Neural Network. , 2016, , .		3
104	The step size impact on the computational cost of spiking neuron simulation. , 2017, , .		3
105	Design and construction of a robotic platform for 3D reconstruction through an embedded processing system. IEEE Latin America Transactions, 2018, 16, 19-24.	1.2	3
106	Morphological Neural Networks with Dendritic Processing for Pattern Classification. , 2018, , 27-47.		3
107	Recognizing Motor Imagery Tasks Using Deep Multi-Layer Perceptrons. Lecture Notes in Computer Science, 2018, , 468-482.	1.0	3
108	Motor Imagery Task Classification in EEG Signals with Spiking Neural Network. Lecture Notes in Computer Science, 2019, , 14-24.	1.0	3

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109	Study of the Effect of Combining Activation Functions in a Convolutional Neural Network. IEEE Latin America Transactions, 2021, 19, 844-852.	1.2	3
110	Optimization of a Passive Parallelogram Suspension System for a Planetary Rover Using Differential Evolution. IEEE Latin America Transactions, 2021, 19, 1366-1374.	1.2	3
111	Comparing Deep and Dendrite Neural Networks: A Case Study. Lecture Notes in Computer Science, 2017, , 32-41.	1.0	3
112	A New Unsupervised Learning for Clustering Using Geometric Associative Memories. Lecture Notes in Computer Science, 2009, , 239-246.	1.0	3
113	A Procedure to Select the Vigilance Threshold for the ART2 for Supervised and Unsupervised Training. Lecture Notes in Computer Science, 2000, , 389-400.	1.0	3
114	Automatic Synthesis of Associative Memories through Genetic Programming: A First Co-evolutionary Approach. Lecture Notes in Computer Science, 2010, , 344-351.	1.0	3
115	Modified Dendrite Morphological Neural Network Applied to 3D Object Recognition on RGB-D Data. Lecture Notes in Computer Science, 2013, , 304-313.	1.0	3
116	Vertex Codification Applied to 3-D Binary Image Euler Number Computation. Lecture Notes in Computer Science, 2019, , 701-713.	1.0	3
117	Towards Dendrite Spherical Neurons for Pattern Classification. Lecture Notes in Computer Science, 2020, , 14-24.	1.0	3
118	R-STDP Spiking Neural Network Architecture for Motion Control on a Changing Friction Joint Robotic Arm. Frontiers in Neurorobotics, 2022, 16, .	1.6	3
119	Architecture for Development of WBES Based on Components and Agents. , 2006, , .		2
120	Associative Memories Applied to Pattern Recognition. Lecture Notes in Computer Science, 2008, , 111-120.	1.0	2
121	A Decision and Communication Management Methodology for embedded Multi- smart Camera systems, applied to real-time inspection in lamps production. , 2008, , .		2
122	Optimal grasping points identification for a rotational four-fingered aerogripper. , 2015, , .		2
123	Encoding Polysomnographic Signals into Spike Firing Rate for Sleep Staging. Lecture Notes in Computer Science, 2015, , 282-291.	1.0	2
124	On the number of holes of a 2-D binary object. , 2015, , .		2
125	PVTOL Control: A Backstepping Approach. , 2015, , .		2
126	Support Vector Machines Applied to 2-D Binary Image Euler Number Computation. , 2016, , .		2

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127	Vegetation Segmentation in Cornfield Images Using Bag of Words. Lecture Notes in Computer Science, 2016, , 193-204.	1.0	2
128	Humanoid robot hierarchical navigation using Petri nets and fuzzy logic. , 2017, , .		2
129	Artificial Neural Networks and Common Spatial Patterns for the Recognition of Motor Information from EEG Signals. Lecture Notes in Computer Science, 2018, , 110-122.	1.0	2
130	Quantitative evaluation of binary digital region asymmetry with application to skin lesion detection. BMC Medical Informatics and Decision Making, 2018, 18, 50.	1.5	2
131	Pixel-Wise Classification in Hippocampus Histological Images. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-11.	0.7	2
132	Voice Translator Based on Associative Memories. Lecture Notes in Computer Science, 2008, , 341-350.	1.0	2
133	Geometric Associative Processing Applied to Pattern Classification. Lecture Notes in Computer Science, 2009, , 977-985.	1.0	2
134	Automatic Design of Artificial Neural Networks and Associative Memories for Pattern Classification and Pattern Restoration. Lecture Notes in Computer Science, 2012, , 23-34.	1.0	2
135	Teaching Basic Concepts: Geometric Forms and Colors on a NAO Robot Platform. Research in Computing Science, 2019, 148, 323-333.	0.1	2
136	On the Computation of the Number of Bubbles and Tunnels of a 3-D Binary Object. , 2016, , .		2
137	Morphological Neural Networks with Dendrite Computation: A Geometrical Approach. Lecture Notes in Computer Science, 2003, , 588-595.	1.0	2
138	Web-Services based Ontology Agent. , 2006, , .		1
139	Morphological auto-associative memories applied to true-color image patterns. , 2009, , .		1
140	A computational approach for modeling the role of the focus visual attention in an object categorization task. BMC Neuroscience, 2009, 10, .	0.8	1
141	Unsupervised Image Retrieval with Similar Lighting Conditions. , 2010, , .		1
142	A new methodology for music retrieval based on dynamic neural networks. International Journal of Hybrid Intelligent Systems, 2012, 9, 1-11.	0.9	1
143	Image Segmentation Using an Evolutionary Method Based on Allostatic Mechanisms. Studies in Computational Intelligence, 2016, , 255-279.	0.7	1
144	Computing the Number of Bubbles and Tunnels of a 3-D Binary Object. Lecture Notes in Computer Science, 2017, , 194-211.	1.0	1

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145	A Comparison Study of EEG Signals Classifiers for Inter-subject Generalization. Lecture Notes in Computer Science, 2021, , 305-315.	1.0	1
146	Invariant Descriptions and Associative Processing Applied to Object Recognition Under Occlusions. Lecture Notes in Computer Science, 2005, , 318-327.	1.0	1
147	Efficient Computation of the Euler Number of a 2-D Binary Image. Lecture Notes in Computer Science, 2017, , 401-413.	1.0	1
148	Face Recognition Using Some Aspects of the Infant Vision System and Associative Memories. , 2007, , 437-446.		1
149	Evolutionary Computation Applied to the Automatic Design of Artificial Neural Networks and Associative Memories. Advances in Intelligent Systems and Computing, 2013, , 285-297.	0.5	1
150	How the Accuracy and Computational Cost of Spiking Neuron Simulation are Affected by the Time Span and Firing Rate. Computacion Y Sistemas, 2018, 21, .	0.2	1
151	Training a Multilayered Perceptron to Compute the Euler Number of a 2-D Binary Image. Lecture Notes in Computer Science, 2016, , 44-53.	1.0	1
152	Dendrite Ellipsoidal Neuron Trained by Stochastic Gradient Descent for Motor Imagery Classification. Lecture Notes in Computer Science, 2019, , 80-88.	1.0	1
153	Automatic Contrast Enhancement with Differential Evolution for Leukemia Cell Identification. Lecture Notes in Computer Science, 2019, , 282-291.	1.0	1
154	Estrous Cycle Classification through Automatic Feature Extraction. Computacion Y Sistemas, 2019, 23, .	0.2	1
155	Expert knowledge for the recognition of leukemic cells. Applied Optics, 2020, 59, 4448.	0.9	1
156	Mobile Robotic Navigation System With Improved Autonomy Under Diverse Scenarios. Lecture Notes in Computer Science, 2020, , 472-485.	1.0	1
157	<title>Movement measurement of isolated skeletal muscle using imaging microscopy</title>. , 1997, 3033, 368.		0
158	Title is missing!. Journal of Mathematical Imaging and Vision, 2000, 12, 155-168.	0.8	0
159	Fast algorithm of byte-to-byte wavelet transform for image compression applications. , 2002, 4789, 291.		0
160	SISREC: a system for image retrieval. , 0, , .		0
161	Associative memory based real-valued pattern recall. , 0, , .		0
162	Refined Method for the Fast and Exact Computation of Moment Invariants. Lecture Notes in Computer Science, 2004, , 487-494.	1.0	0

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163	Fringe normalization by using an interpolation algorithm. , 2005, , .		0
164	Predictive Causal Approach for Student Modeling. , 2006, , .		0
165	Proposal to Construct a 3D Image Viewer Based on a Commercial Ultrasonic 2D Imaging System. Physics Procedia, 2015, 63, 73-78.	1.2	0
166	Vision system adapted to a mobile tracked robot. , 2017, , .		0
167	Classification of the estrous cycle through texture and shape features. , 2017, , .		0
168	Coding 3D Connected Regions with F26 Chain Code. Lecture Notes in Computer Science, 2018, , 3-14.	1.0	0
169	Using Morphological-Linear Neural Network for Upper Limb Movement Intention Recognition from EEG Signals. Lecture Notes in Computer Science, 2019, , 389-397.	1.0	0
170	An Approach to the Computation of the Euler Number by means of the Vertex Chain Code. Computational and Mathematical Methods in Medicine, 2020, 2020, 1-13.	0.7	0
171	Guest Editorial Special Issue on Fighting Against COVID-19. IEEE Latin America Transactions, 2021, 19, 855-865.	1.2	0
172	<title>Impulse rejecting filter for efficient noise removal and fine detail preservation</title>. , 2001, , .		0
173	Feature Matching Using Accumulation Spaces. Lecture Notes in Computer Science, 2002, , 61-68.	1.0	0
174	Real-Valued Pattern Recall by Associative Memory. Lecture Notes in Computer Science, 2004, , 646-655.	1.0	0
175	Scene Retrieval of Natural Images. Lecture Notes in Computer Science, 2009, , 774-781.	1.0	0
176	Dynamic Neural Networks Applied to Melody Retrieval. Lecture Notes in Computer Science, 2010, , 269-279.	1.0	0
177	A Parametric Method Applied to Phase Recovery from a Fringe Pattern Based on a Particle Swarm Optimization. Lecture Notes in Computer Science, 2010, , 40-47.	1.0	0
178	Geometric Associative Memories and Their Applications to Pattern Classification. , 2010, , 211-230.		0
179	Fringe-Pattern Demodulation Using a Parametric Method Based on Differential Evolution. Lecture Notes in Computer Science, 2010, , 61-70.	1.0	0
180	Evolutionary Associative Memories through Genetic Programming. Studies in Computational Intelligence, 2012, , 171-188.	0.7	0

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181	Fast Circle Detection Using Harmony Search Optimization. Advances in Intelligent Systems and Computing, 2013, , 313-325.	0.5	0
182	Modified Binary Inertial Particle Swarm Optimization for Gene Selection in DNA Microarray Data. Lecture Notes in Computer Science, 2015, , 271-281.	1.0	0
183	Automatic Construction of Radial-Basis Function Networks Through an Adaptive Partition Algorithm. Lecture Notes in Computer Science, 2016, , 198-207.	1.0	0
184	Fuzzy Modeling from Black-Box Data with Deep Learning Techniques. Lecture Notes in Computer Science, 2017, , 304-312.	1.0	0
185	Efficient Pattern Recognition Using theÂFrequency Response of a Spiking Neuron. Lecture Notes in Computer Science, 2017, , 53-62.	1.0	0
186	Using Pulse Coupled Neural Networks to Improve Image Filtering Contaminated with Gaussian Noise. Computacion Y Sistemas, 2017, 21, .	0.2	0
187	NavegaciÃ³n jerÃ¡rquica de un robot humanoide usando redes de Petri y lÃ³gica difusa. Research in Computing Science, 2017, 135, 207-220.	0.1	0
188	ComparaciÃ³n de dos mÃ©todos para reconocimiento de dÃgitos manuscritos fuera de lÃnea. Research in Computing Science, 2018, 147, 129-142.	0.1	0
189	Estudio comparativo del reconocimiento de rostros tÃ©rmicos basado en caracterÃsticas invariantes. Research in Computing Science, 2018, 147, 215-228.	0.1	0
190	Modelos neuronales pulsantes adaptados para el mejoramiento de luminosidad de imÃ¡genes cerebrales de gran resoluciÃ³n. Research in Computing Science, 2019, 148, 253-266.	0.1	0
191	Prototipo de sistema embebido para la asistencia de personas con discapacidad visual en la acera pÃºblica. Research in Computing Science, 2019, 148, 247-259.	0.1	0
192	A New Algorithm for Training Multi-layered Morphological Networks. , 2007, , 546-555.		0
193	Reconocimiento de objetos cuasi-planos mediante un sistema de tratamiento digital de imÃ¡genes embebido en una plataforma tipo Raspberry Pi. Research in Computing Science, 2018, 147, 159-169.	0.1	0
194	Spiking neural networks and dendrite morphological neural networks: an introduction. , 2022, , 197-224.		0
195	Efficient Luminosity Enhancement in Human Brain Images using Pulse-Coupled Neural Networks. Computacion Y Sistemas, 2020, 24, .	0.2	0