

Roberto A Vazquez

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

804
citations

758635

12
h-index

676716

22
g-index

67
all docs

67
docs citations

67
times ranked

629
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Automatic Diet Generation by Artificial Bee Colony Algorithm. Lecture Notes in Computer Science, 2019, , 299-309. | 1.0 | 1 |
| 2 | Evaluating the effect of the cutoff frequencies during the pre-processing stage of motor imagery EEG signals classification. Biomedical Signal Processing and Control, 2019, 54, 101592. | 3.5 | 6 |
| 3 | A New Generalized Neuron Model Applied to DNA Microarray Classification. Communications in Computer and Information Science, 2019, , 125-136. | 0.4 | 0 |
| 4 | Facing High EEG Signals Variability during Classification Using Fractal Dimension and Different Cutoff Frequencies. Computational Intelligence and Neuroscience, 2019, 2019, 1-12. | 1.1 | 2 |
| 5 | Spiking Neural Models and Their Application in DNA Microarrays Classification. Lecture Notes in Computer Science, 2019, , 164-172. | 1.0 | 0 |
| 6 | Evaluating spiking neural models in the classification of motor imagery EEG signals using short calibration sessions. Applied Soft Computing Journal, 2018, 67, 232-244. | 4.1 | 10 |
| 7 | Classification of motor imagery electroencephalography signals using spiking neurons with different input encoding strategies. Neural Computing and Applications, 2018, 30, 1289-1301. | 3.2 | 7 |
| 8 | EEG Channel Selection using Fractal Dimension and Artificial Bee Colony Algorithm. , 2018, , . | | 4 |
| 9 | Designing artificial neural networks using differential evolution for classifying DNA microarrays. , 2017, , . | | 6 |
| 10 | Classification of EEG signals using fractal dimension features and artificial neural networks. , 2017, , . | | 3 |
| 11 | Generalized neurons and its application in DNA microarray classification. , 2016, , . | | 1 |
| 12 | Spiking Neural Networks Trained with Particle Swarm Optimization for Motor Imagery Classification. Lecture Notes in Computer Science, 2016, , 245-252. | 1.0 | 4 |
| 13 | Classification of DNA microarrays using artificial neural networks and ABC algorithm. Applied Soft Computing Journal, 2016, 38, 548-560. | 4.1 | 93 |
| 14 | Face Recognition Using Histogram Oriented Gradients. Communications in Computer and Information Science, 2016, , 125-133. | 0.4 | 11 |
| 15 | Crop Classification Using Artificial Bee Colony (ABC) Algorithm. Lecture Notes in Computer Science, 2016, , 171-178. | 1.0 | 4 |
| 16 | Designing Artificial Neural Networks Using Particle Swarm Optimization Algorithms. Computational Intelligence and Neuroscience, 2015, 2015, 1-20. | 1.1 | 124 |
| 17 | Training Spiking Neural Models Using Artificial Bee Colony. Computational Intelligence and Neuroscience, 2015, 2015, 1-14. | 1.1 | 23 |
| 18 | Tuning the parameters of an integrate and fire neuron via a genetic algorithm for solving pattern recognition problems. Neurocomputing, 2015, 148, 187-197. | 3.5 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Crop Classification Using Different Color Spaces and RBF Neural Networks. Lecture Notes in Computer Science, 2014, , 598-609. | 1.0 | 6 |
| 20 | Classification of DNA Microarrays Using Artificial Bee Colony (ABC) Algorithm. Lecture Notes in Computer Science, 2014, , 207-214. | 1.0 | 6 |
| 21 | Creation of spiking neuron models applied in pattern recognition problems. , 2013, , . | | 3 |
| 22 | Malware Classification Using Euclidean Distance and Artificial Neural Networks. , 2013, , . | | 8 |
| 23 | Spiking Neuron Model approximation using GEP. , 2013, , . | | 0 |
| 24 | A new objective function to build seismic networks using differential evolution. , 2012, , . | | 3 |
| 25 | Implementation of configurable and multipurpose spiking neural networks on GPUs. , 2012, , . | | 1 |
| 26 | Training spiking neural models using cuckoo search algorithm. , 2011, , . | | 57 |
| 27 | Artificial neural network synthesis by means of artificial bee colony (ABC) algorithm. , 2011, , . | | 38 |
| 28 | Behavioural study of median associative memory under true-colour image patterns. Neurocomputing, 2011, 74, 2985-2997. | 3.5 | 4 |
| 29 | A computational approach for modeling the biological olfactory system during an odor discrimination task using spiking neuron. BMC Neuroscience, 2011, 12, . | 0.8 | 3 |
| 30 | Locating seismic-sense stations through genetic algorithm. , 2011, , . | | 3 |
| 31 | Visual attention using spiking neural maps. , 2011, , . | | 9 |
| 32 | Training Spiking Neurons by Means of Particle Swarm Optimization. Lecture Notes in Computer Science, 2011, , 242-249. | 1.0 | 13 |
| 33 | 3D Object Recognition Based on Some Aspects of the Infant Vision System and Associative Memory. Cognitive Computation, 2010, 2, 86-96. | 3.6 | 5 |
| 34 | Integrate and Fire neurons and their application in pattern recognition. , 2010, , . | | 25 |
| 35 | An Evolutionary Feature-Based Visual Attention Model Applied to Face Recognition. Lecture Notes in Computer Science, 2010, , 376-384. | 1.0 | 5 |
| 36 | Pattern Recognition Using Spiking Neurons and Firing Rates. Lecture Notes in Computer Science, 2010, , 423-432. | 1.0 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Design of Artificial Neural Networks Using Differential Evolution Algorithm. Lecture Notes in Computer Science, 2010, , 201-208. | 1.0 | 20 |
| 38 | Morphological auto-associative memories applied to true-color image patterns. , 2009, , . | | 1 |
| 39 | Behavior of morphological associative memories with true-color image patterns. Neurocomputing, 2009, 73, 225-244. | 3.5 | 16 |
| 40 | A computational approach for modeling the role of the focus visual attention in an object categorization task. BMC Neuroscience, 2009, 10, . | 0.8 | 1 |
| 41 | Design of artificial neural networks using a modified Particle Swarm Optimization algorithm. , 2009, , . | | 39 |
| 42 | A Bidirectional Hetero-Associative Memory for True-Color Patterns. Neural Processing Letters, 2008, 28, 131-153. | 2.0 | 27 |
| 43 | A New Associative Model with Dynamical Synapses. Neural Processing Letters, 2008, 28, 189-207. | 2.0 | 31 |
| 44 | Associative Memories Applied to Pattern Recognition. Lecture Notes in Computer Science, 2008, , 111-120. | 1.0 | 2 |
| 45 | Voice Translator Based on Associative Memories. Lecture Notes in Computer Science, 2008, , 341-350. | 1.0 | 2 |
| 46 | Hetero-Associative Memories for Voice Signal and Image Processing. Lecture Notes in Computer Science, 2008, , 659-666. | 1.0 | 4 |
| 47 | Evolving ant colony system for optimizing path planning in mobile robots. , 2007, , . | | 12 |
| 48 | Random Features Applied to Face Recognition. , 2007, , . | | 7 |
| 49 | A computational approach for modeling the infant vision system in object and face recognition. BMC Neuroscience, 2007, 8, . | 0.8 | 5 |
| 50 | 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 |
| 51 | Low Frequency Response and Random Feature Selection Applied to Face Recognition. Lecture Notes in Computer Science, 2007, , 818-830. | 1.0 | 10 |
| 52 | 3D Object Recognition Based on Low Frequency Response and Random Feature Selection. Lecture Notes in Computer Science, 2007, , 694-704. | 1.0 | 9 |
| 53 | Face Recognition Using Some Aspects of the Infant Vision System and Associative Memories. , 2007, , 437-446. | | 1 |
| 54 | Path Planning Optimization Using Bio-Inspired Algorithms. , 2006, , . | | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Associative Memories Applied to Image Categorization. Lecture Notes in Computer Science, 2006, , 549-558. | 1.0 | 8 |
| 56 | A New Bi-directional Associative Memory. Lecture Notes in Computer Science, 2006, , 367-380. | 1.0 | 5 |
| 57 | Invariant Descriptions and Associative Processing Applied to Object Recognition Under Occlusions. Lecture Notes in Computer Science, 2005, , 318-327. | 1.0 | 1 |
| 58 | New Associative Memories to Recall Real-Valued Patterns. Lecture Notes in Computer Science, 2004, , 195-202. | 1.0 | 12 |
| 59 | Transforming Fundamental Set of Patterns to a Canonical Form to Improve Pattern Recall. Lecture Notes in Computer Science, 2004, , 687-696. | 1.0 | 17 |
| 60 | Real-valued pattern classification based on extended associative memory. , 0, , . | | 5 |
| 61 | Diseño automático de redes neuronales artificiales mediante el uso del algoritmo de evolución diferencial (ED). Polibits, 0, 46, 13-27. | 0.0 | 2 |