

Rafael Marcos Luque-Baena

List of Publications by Year in descending order

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79
papers

812
citations

623188

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h-index

580395

25
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87
all docs

87
docs citations

87
times ranked

876
citing authors

#	ARTICLE	IF	CITATIONS
1	Wound image evaluation with machine learning. <i>Neurocomputing</i> , 2015, 164, 112-122.	3.5	68
2	FOREGROUND DETECTION IN VIDEO SEQUENCES WITH PROBABILISTIC SELF-ORGANIZING MAPS. <i>International Journal of Neural Systems</i> , 2011, 21, 225-246.	3.2	62
3	Efficient Implementation of the Backpropagation Algorithm in FPGAs and Microcontrollers. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016, 27, 1840-1850.	7.2	62
4	Vehicle type detection by ensembles of convolutional neural networks operating on super resolved images. <i>Integrated Computer-Aided Engineering</i> , 2018, 25, 321-333.	2.5	56
5	Assessment of geometric features for individual identification and verification in biometric hand systems. <i>Expert Systems With Applications</i> , 2013, 40, 3580-3594.	4.4	47
6	Study and classification of plum varieties using image analysis and deep learning techniques. <i>Progress in Artificial Intelligence</i> , 2018, 7, 119-127.	1.5	35
7	Stochastic approximation for background modelling. <i>Computer Vision and Image Understanding</i> , 2011, 115, 735-749.	3.0	30
8	Application of growing hierarchical SOM for visualisation of network forensics traffic data. <i>Neural Networks</i> , 2012, 32, 275-284.	3.3	27
9	Robust gene signatures from microarray data using genetic algorithms enriched with biological pathway keywords. <i>Journal of Biomedical Informatics</i> , 2014, 49, 32-44.	2.5	24
10	Application of genetic algorithms and constructive neural networks for the analysis of microarray cancer data. <i>Theoretical Biology and Medical Modelling</i> , 2014, 11, S7.	2.1	24
11	Foreground Detection by Competitive Learning for Varying Input Distributions. <i>International Journal of Neural Systems</i> , 2018, 28, 1750056.	3.2	24
12	A self-organizing map to improve vehicle detection in flow monitoring systems. <i>Soft Computing</i> , 2015, 19, 2499-2509.	2.1	20
13	A Neural Network Approach for Video Object Segmentation in Traffic Surveillance. <i>Lecture Notes in Computer Science</i> , 2008, , 151-158.	1.0	20
14	Foreground detection by probabilistic modeling of the features discovered by stacked denoising autoencoders in noisy video sequences. <i>Pattern Recognition Letters</i> , 2019, 125, 481-487.	2.6	17
15	A Competitive Neural Network for Multiple Object Tracking in Video Sequence Analysis. <i>Neural Processing Letters</i> , 2013, 37, 47-67.	2.0	14
16	Computational Intelligence Techniques in Medicine. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-2.	0.7	14
17	Background subtraction by probabilistic modeling of patch features learned by deep autoencoders. <i>Integrated Computer-Aided Engineering</i> , 2020, 27, 253-265.	2.5	13
18	Addressing the 5G Cell Switch-off Problem with a Multi-objective Cellular Genetic Algorithm. , 2018, , .		11

#	ARTICLE	IF	CITATIONS
19	Saving energy in WSNs with beamforming. , 2014, , .		10
20	Road pollution estimation from vehicle tracking in surveillance videos by deep convolutional neural networks. Applied Soft Computing Journal, 2021, 113, 107950.	4.1	10
21	A New GHSOM Model Applied to Network Security. Lecture Notes in Computer Science, 2008, , 680-689.	1.0	9
22	Video Object Segmentation with Multivalued Neural Networks. , 2008, , .		9
23	NeuralSens: A neural network based framework to allow dynamic adaptation in wireless sensor and actor networks. Journal of Network and Computer Applications, 2012, 35, 382-393.	5.8	9
24	The effect of noise on foreground detection algorithms. Artificial Intelligence Review, 2018, 49, 407-438.	9.7	9
25	Deep learning-based super-resolution of 3D magnetic resonance images by regularly spaced shifting. Neurocomputing, 2020, 398, 314-327.	3.5	9
26	Clustering and Beamforming for Efficient Communication in Wireless Sensor Networks. Sensors, 2016, 16, 1334.	2.1	8
27	Selecting the Color Space for Self-Organizing Map Based Foreground Detection in Video. Neural Processing Letters, 2016, 43, 345-361.	2.0	8
28	Improved detection of small objects in road network sequences using <scp>CNN</scp> and super resolution. Expert Systems, 2022, 39, .	2.9	8
29	Object recognition and inspection in difficult industrial environments. , 2006, , .		7
30	Image Compression and Video Segmentation Using Hierarchical Self-Organization. Neural Processing Letters, 2013, 37, 69-87.	2.0	7
31	GA-based feature selection approach in biometric hand systems. , 2011, , .		6
32	Color space selection for self-organizing map based foreground detection in video sequences. , 2014, , .		6
33	Vehicle Type Detection by Convolutional Neural Networks. Lecture Notes in Computer Science, 2017, , 268-278.	1.0	6
34	Anomalous object detection by active search with PTZ cameras. Expert Systems With Applications, 2021, 181, 115150.	4.4	6
35	Object Tracking in Video Sequences by Unsupervised Learning. Lecture Notes in Computer Science, 2009, , 1070-1077.	1.0	6
36	Image Hierarchical Segmentation Based on a GHSOM. Lecture Notes in Computer Science, 2009, , 743-750.	1.0	5

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37	Visualisation of network forensics traffic data with a self-organising map for qualitative features. , 2011, , .		5
38	Panoramic background modeling for PTZ cameras with competitive learning neural networks. , 2017, , .		5
39	Aggregation of Convolutional Neural Network Estimations of Homographies by Color Transformations of the Inputs. IEEE Access, 2020, 8, 79552-79560.	2.6	5
40	Background Modeling for Video Sequences by Stacked Denoising Autoencoders. Lecture Notes in Computer Science, 2018, , 341-350.	1.0	5
41	Network Security Using Growing Hierarchical Self-Organizing Maps. Lecture Notes in Computer Science, 2009, , 130-139.	1.0	5
42	Measuring cooperative massive MIMO in reverberation chamber. Journal of Electromagnetic Waves and Applications, 2015, 29, 636-646.	1.0	4
43	Analysis of beamforming for improving the energy efficiency in wireless sensor networks with metaheuristics. Progress in Artificial Intelligence, 2016, 5, 199-206.	1.5	4
44	Neural controller for PTZ cameras based on nonpanoramic foreground detection. , 2017, , .		4
45	A New Self-Organizing Neural Gas Model based on Bregman Divergences. , 2018, , .		4
46	A Dipolar Competitive Neural Network for Video Segmentation. Lecture Notes in Computer Science, 2008, , 103-112.	1.0	4
47	An anomaly detection system using a GHSOM-1. , 2010, , .		3
48	An adaptive system for compressed video deblocking. Signal Processing, 2014, 103, 415-425.	2.1	3
49	Dynamic tree topology learning by self-organization. Neural Computing and Applications, 2017, 28, 911-924.	3.2	3
50	Machine learning models to search relevant genetic signatures in clinical context. , 2017, , .		3
51	Panorama construction for PTZ camera surveillance with the neural gas network. Expert Systems, 2018, 35, e12249.	2.9	3
52	Fuzzy techniques for IPO underpricing prediction. Journal of Intelligent and Fuzzy Systems, 2018, 35, 367-381.	0.8	3
53	Background Modeling by Shifted Tilings of Stacked Denoising Autoencoders. Lecture Notes in Computer Science, 2019, , 307-316.	1.0	3
54	SOM-Based Techniques towards Hierarchical Visualisation of Network Forensics Traffic Data. Studies in Computational Intelligence, 2012, , 75-95.	0.7	3

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55	Road Pollution Estimation Using Static Cameras And Neural Networks. , 2018, , .		2
56	The effect of downsamplingâ€“upsampling strategy on foreground detection algorithms. Artificial Intelligence Review, 2020, 53, 4935-4965.	9.7	2
57	Frame Size Reduction for Foreground Detection in Video Sequences. Lecture Notes in Computer Science, 2016, , 3-12.	1.0	2
58	A Competitive Neural Network for Intrusion Detection Systems. Communications in Computer and Information Science, 2008, , 530-537.	0.4	2
59	A Constructive Neural Network to Predict Pitting Corrosion Status of Stainless Steel. Lecture Notes in Computer Science, 2013, , 88-95.	1.0	2
60	Vehicle Classification in Traffic Environments Using the Growing Neural Gas. Lecture Notes in Computer Science, 2017, , 225-234.	1.0	2
61	A Self-Organized Multiagent System for Intrusion Detection. Lecture Notes in Computer Science, 2009, , 84-94.	1.0	1
62	Residual oxides detection and measurement in stainless steel production lines. , 2009, , .		1
63	Lossy Image Compression Using a GHSOM. Lecture Notes in Computer Science, 2011, , 1-8.	1.0	1
64	Foreground detection by ensembles of random polygonal tilings. Expert Systems With Applications, 2020, 161, 113518.	4.4	1
65	Visualization of Complex Datasets with the Self-Organizing Spanning Tree. Lecture Notes in Computer Science, 2015, , 209-217.	1.0	1
66	Committee C-Mantec: A Probabilistic Constructive Neural Network. Lecture Notes in Computer Science, 2013, , 339-346.	1.0	1
67	A Growing Neural Gas Approach to Classify Vehicles in Traffic Environments. International Journal of Computer Vision and Image Processing, 2017, 7, 1-12.	0.3	1
68	Securing and Greening Wireless Sensor Networks with Beamforming. Mobile Networks and Applications, 2019, 24, 712-720.	2.2	0
69	Adaptive estimation of optimal color transformations for deep convolutional network based homography estimation. , 2021, , .		0
70	Foreground Segmentation Improvement by Image Denoising Preprocessing Applied to Noisy Video Sequences. Advances in Intelligent Systems and Computing, 2022, , 388-397.	0.5	0
71	Growing Competitive Network for Tracking Objects in Video Sequences. Lecture Notes in Computer Science, 2009, , 109-118.	1.0	0
72	Hierarchical Graphs for Data Clustering. Lecture Notes in Computer Science, 2009, , 432-439.	1.0	0

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73	A Neural Recognition System for Manufactured Objects. Lecture Notes in Computer Science, 2009, , 1274-1281.	1.0	0
74	Spam Detection Based on a Hierarchical Self-Organizing Map. Lecture Notes in Computer Science, 2009, , 30-37.	1.0	0
75	Feature Weighting in Competitive Learning for Multiple Object Tracking in Video Sequences. Lecture Notes in Computer Science, 2011, , 17-24.	1.0	0
76	Feature Selection of Hand Biometrical Traits Based on Computational Intelligence Techniques. Studies in Computational Intelligence, 2012, , 159-180.	0.7	0
77	A Self-organizing Map for Traffic Flow Monitoring. Lecture Notes in Computer Science, 2013, , 458-466.	1.0	0
78	Hierarchical Self-Organizing Networks for Multispectral Data Visualization. Lecture Notes in Computer Science, 2013, , 449-457.	1.0	0
79	Foreground Detection Enhancement Using Pearson Correlation Filtering. Communications in Computer and Information Science, 2018, , 417-428.	0.4	0