Enrique Dominguez

List of Publications by Year
in descending order

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66	486	840776 11	794594 19
papers	citations	h-index	g-index

70	70	70	437
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	FOREGROUND DETECTION IN VIDEO SEQUENCES WITH PROBABILISTIC SELF-ORGANIZING MAPS. International Journal of Neural Systems, 2011, 21, 225-246.	5.2	62
2	A Convolutional Neural Network Framework for Accurate Skin Cancer Detection. Neural Processing Letters, 2021, 53, 3073-3093.	3.2	59
3	A neural model for the p-median problem. Computers and Operations Research, 2008, 35, 404-416.	4.0	32
4	Skin Lesion Classification by Ensembles of Deep Convolutional Networks and Regularly Spaced Shifting. IEEE Access, 2021, 9, 112193-112205.	4.2	25
5	Foreground Detection by Competitive Learning for Varying Input Distributions. International Journal of Neural Systems, 2018, 28, 1750056.	5.2	24
6	Hierarchical Color Quantization Based on Self-organization. Journal of Mathematical Imaging and Vision, 2014, 49, 1-19.	1.3	22
7	Deep learning-based video surveillance system managed by low cost hardware and panoramic cameras. Integrated Computer-Aided Engineering, 2020, 27, 373-387.	4.6	22
8	A self-organizing map to improve vehicle detection in flow monitoring systems. Soft Computing, 2015, 19, 2499-2509.	3.6	20
9	Diabetic Wound Segmentation using Convolutional Neural Networks. , 2019, 2019, 1002-1005.		19
10	Comparative analysis of modern optimization tools for the p-median problem. Statistics and Computing, 2006, 16, 251-260.	1.5	14
11	A Competitive Neural Network for Multiple Object Tracking in Video Sequence Analysis. Neural Processing Letters, 2013, 37, 47-67.	3.2	14
12	BREGMAN DIVERGENCES FOR GROWING HIERARCHICAL SELF-ORGANIZING NETWORKS. International Journal of Neural Systems, 2014, 24, 1450016.	5.2	14
13	Real-Time Robot Vision on Low-Performance Computing Hardware. , 2018, , .		13
14	A New GHSOM Model Applied to Network Security. Lecture Notes in Computer Science, 2008, , 680-689.	1.3	9
15	The effect of noise on foreground detection algorithms. Artificial Intelligence Review, 2018, 49, 407-438.	15.7	9
16	Deep learning-based super-resolution of 3D magnetic resonance images by regularly spaced shifting. Neurocomputing, 2020, 398, 314-327.	5.9	9
17	Selecting the Color Space for Self-Organizing Map Based Foreground Detection in Video. Neural Processing Letters, 2016, 43, 345-361.	3.2	8
18	An Efficient Neural Network Algorithm for the p-Median Problem. Lecture Notes in Computer Science, 2002, , 460-469.	1.3	7

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19	Object recognition and inspection in difficult industrial environments. , 2006, , .		7
20	Image Compression and Video Segmentation Using Hierarchical Self-Organization. Neural Processing Letters, 2013, 37, 69-87.	3.2	7
21	Motion detection with low cost hardware for PTZ cameras. Integrated Computer-Aided Engineering, 2018, 26, 21-36.	4.6	7
22	Color space selection for self-organizing map based foreground detection in video sequences. , 2014, , .		6
23	Robust self-organization with M-estimators. Neurocomputing, 2015, 151, 408-423.	5.9	6
24	Piecewise Polynomial Activation Functions for Feedforward Neural Networks. Neural Processing Letters, 2019, 50, 121-147.	3.2	6
25	Image Hierarchical Segmentation Based on a GHSOM. Lecture Notes in Computer Science, 2009, , 743-750.	1.3	5
26	Panoramic background modeling for PTZ cameras with competitive learning neural networks. , 2017, , .		5
27	Foreground object detection for video surveillance by fuzzy logic based estimation of pixel illumination states. Logic Journal of the IGPL, 2018, , .	1.5	5
28	Analyzing Digital Image by Deep Learning for Melanoma Diagnosis. Lecture Notes in Computer Science, 2019, , 270-279.	1.3	5
29	Neural controller for PTZ cameras based on nonpanoramic foreground detection. , 2017, , .		4
30	Video and Image Processing with Self-Organizing Neural Networks. Lecture Notes in Computer Science, 2011, , 98-104.	1.3	4
31	Dynamic tree topology learning by self-organization. Neural Computing and Applications, 2017, 28, 911-924.	5.6	3
32	Panorama construction for PTZ camera surveillance with the neural gas network. Expert Systems, 2018, 35, e12249.	4.5	3
33	Deep learning-based anomalous object detection system powered by microcontroller for PTZ cameras. , 2018, , .		3
34	Deep learning-based anomalous object detection system for panoramic cameras managed by a Jetson TX2 board. , 2021, , .		3
35	RealNet: a neural network architecture for real-time systems scheduling. Neural Computing and Applications, 2004, 13, 281-287.	5.6	2
36	Super-resolution of 3D Magnetic Resonance Images by Random Shifting and Convolutional Neural Networks. , 2018, , .		2

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37	Frame Size Reduction for Foreground Detection in Video Sequences. Lecture Notes in Computer Science, 2016, , 3-12.	1.3	2
38	Motion Detection by Microcontroller for Panning Cameras. Lecture Notes in Computer Science, 2017, , 279-288.	1.3	2
39	A Competitive Neural Network for Intrusion Detection Systems. Communications in Computer and Information Science, 2008, , 530-537.	0.5	2
40	Vehicle Classification in Traffic Environments Using the Growing Neural Gas. Lecture Notes in Computer Science, 2017, , 225-234.	1.3	2
41	New learning rules for the ASSOM network. Neural Computing and Applications, 2003, 12, 109-118.	5.6	1
42	A Self-Organized Multiagent System for Intrusion Detection. Lecture Notes in Computer Science, 2009, , 84-94.	1.3	1
43	Quantifying Varnish Removal Using Chemical Flushes. Tribology Transactions, 2018, 61, 1067-1073.	2.0	1
44	Discrete ordered median problem with induced order. Top, 2020, 28, 793-813.	1.6	1
45	Enhanced transfer learning model by image shifting on a square lattice for skin lesion malignancy assessment. , 2021, , .		1
46	Hierarchical Color Quantization with a Neural Gas Model Based on Bregman Divergences. Advances in Intelligent Systems and Computing, 2022, , 327-337.	0.6	1
47	Visualization of Complex Datasets with the Self-Organizing Spanning Tree. Lecture Notes in Computer Science, 2015, , 209-217.	1.3	1
48	Unsupervised Color Quantization with the Growing Neural Forest. Lecture Notes in Computer Science, 2017, , 306-316.	1.3	1
49	A Recurrent Neural Network for Airport Scales Location. Lecture Notes in Computer Science, 2004, , 107-115.	1.3	1
50	A Multivalued Recurrent Neural Network for the Quadratic Assignment Problem. International Federation for Information Processing, 2011, , 132-140.	0.4	1
51	A Growing Neural Gas Approach to Classify Vehicles in Traffic Environments. International Journal of Computer Vision and Image Processing, 2017, 7, 1-12.	0.4	1
52	3D Hand Pose Estimation with Neural Networks. Lecture Notes in Computer Science, 2013, , 504-512.	1.3	0
53	Image Clustering Using a Growing Neural Gas with Forbidden Regions. , 2020, , .		0
54	A learning rule to model the development of orientation selectivity in visual cortex. Lecture Notes in Computer Science, 2003, , 190-197.	1.3	0

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55	Bidirectional Neural Network for Clustering Problems. Lecture Notes in Computer Science, 2004, , 788-798.	1.3	0
56	A Statistical Validation of Vessel Segmentation in Medical Images. Lecture Notes in Computer Science, 2004, , 617-625.	1.3	0
57	A Neural Recognition System for Manufactured Objects. Lecture Notes in Computer Science, 2009, , 1274-1281.	1.3	0
58	Spam Detection Based on a Hierarchical Self-Organizing Map. Lecture Notes in Computer Science, 2009, , 30-37.	1.3	0
59	A Recurrent Neural Network for Channel Assignment Problems in Mobiles. Lecture Notes in Computer Science, 2010, , 406-412.	1.3	0
60	A Self-organizing Map for Traffic Flow Monitoring. Lecture Notes in Computer Science, 2013, , 458-466.	1.3	0
61	Hierarchical Self-Organizing Networks for Multispectral Data Visualization. Lecture Notes in Computer Science, 2013, , 449-457.	1.3	0
62	Growing Neural Forest-Based Color Quantization Applied to RGB Images. International Journal of Computer Vision and Image Processing, 2017, 7, 13-25.	0.4	0
63	Developing Cooperative Evaluation Methodologies in Higher Education. Advances in Intelligent Systems and Computing, 2018, , 706-711.	0.6	0
64	Foreground Detection Enhancement Using Pearson Correlation Filtering. Communications in Computer and Information Science, 2018, , 417-428.	0.5	0
65	Infering Air Quality from Traffic Data Using Transferable Neural Network Models. Lecture Notes in Computer Science, 2019, , 832-843.	1.3	0
66	Deep Learning-Based Security System Powered by Low Cost Hardware and Panoramic Cameras. Lecture Notes in Computer Science, 2019, , 317-326.	1.3	0