Enrique Dominguez

List of Publications by Year
in descending order

66	486	840119 11	794141 19
papers	citations	h-index	g-index

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

#	Article	IF	Citations
1	Hierarchical Color Quantization with a Neural Gas Model Based on Bregman Divergences. Advances in Intelligent Systems and Computing, 2022, , 327-337.	0.5	1
2	A Convolutional Neural Network Framework for Accurate Skin Cancer Detection. Neural Processing Letters, 2021, 53, 3073-3093.	2.0	59
3	Enhanced transfer learning model by image shifting on a square lattice for skin lesion malignancy assessment. , 2021, , .		1
4	Deep learning-based anomalous object detection system for panoramic cameras managed by a Jetson TX2 board. , 2021, , .		3
5	Skin Lesion Classification by Ensembles of Deep Convolutional Networks and Regularly Spaced Shifting. IEEE Access, 2021, 9, 112193-112205.	2.6	25
6	Deep learning-based super-resolution of 3D magnetic resonance images by regularly spaced shifting. Neurocomputing, 2020, 398, 314-327.	3.5	9
7	Image Clustering Using a Growing Neural Gas with Forbidden Regions. , 2020, , .		0
8	Deep learning-based video surveillance system managed by low cost hardware and panoramic cameras. Integrated Computer-Aided Engineering, 2020, 27, 373-387.	2.5	22
9	Discrete ordered median problem with induced order. Top, 2020, 28, 793-813.	1.1	1
10	Analyzing Digital Image by Deep Learning for Melanoma Diagnosis. Lecture Notes in Computer Science, 2019, , 270-279.	1.0	5
11	Diabetic Wound Segmentation using Convolutional Neural Networks. , 2019, 2019, 1002-1005.		19
12	Piecewise Polynomial Activation Functions for Feedforward Neural Networks. Neural Processing Letters, 2019, 50, 121-147.	2.0	6
13	Infering Air Quality from Traffic Data Using Transferable Neural Network Models. Lecture Notes in Computer Science, 2019, , 832-843.	1.0	0
14	Deep Learning-Based Security System Powered by Low Cost Hardware and Panoramic Cameras. Lecture Notes in Computer Science, 2019, , 317-326.	1.0	0
15	Panorama construction for PTZ camera surveillance with the neural gas network. Expert Systems, 2018, 35, e12249.	2.9	3
16	Foreground Detection by Competitive Learning for Varying Input Distributions. International Journal of Neural Systems, 2018, 28, 1750056.	3.2	24
17	The effect of noise on foreground detection algorithms. Artificial Intelligence Review, 2018, 49, 407-438.	9.7	9
18	Real-Time Robot Vision on Low-Performance Computing Hardware. , 2018, , .		13

#	Article	IF	Citations
19	Deep learning-based anomalous object detection system powered by microcontroller for PTZ cameras. , 2018, , .		3
20	Super-resolution of 3D Magnetic Resonance Images by Random Shifting and Convolutional Neural Networks. , 2018, , .		2
21	Quantifying Varnish Removal Using Chemical Flushes. Tribology Transactions, 2018, 61, 1067-1073.	1.1	1
22	Motion detection with low cost hardware for PTZ cameras. Integrated Computer-Aided Engineering, 2018, 26, 21-36.	2.5	7
23	Foreground object detection for video surveillance by fuzzy logic based estimation of pixel illumination states. Logic Journal of the IGPL, 2018, , .	1.3	5
24	Developing Cooperative Evaluation Methodologies in Higher Education. Advances in Intelligent Systems and Computing, 2018, , 706-711.	0.5	0
25	Foreground Detection Enhancement Using Pearson Correlation Filtering. Communications in Computer and Information Science, 2018, , 417-428.	0.4	0
26	Dynamic tree topology learning by self-organization. Neural Computing and Applications, 2017, 28, 911-924.	3.2	3
27	Panoramic background modeling for PTZ cameras with competitive learning neural networks. , 2017, , .		5
28	Neural controller for PTZ cameras based on nonpanoramic foreground detection. , 2017, , .		4
29	Unsupervised Color Quantization with the Growing Neural Forest. Lecture Notes in Computer Science, 2017, , 306-316.	1.0	1
30	Motion Detection by Microcontroller for Panning Cameras. Lecture Notes in Computer Science, 2017, , 279-288.	1.0	2
31	Vehicle Classification in Traffic Environments Using the Growing Neural Gas. Lecture Notes in Computer Science, 2017, , 225-234.	1.0	2
32	Growing Neural Forest-Based Color Quantization Applied to RGB Images. International Journal of Computer Vision and Image Processing, 2017, 7, 13-25.	0.3	0
33	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
34	Selecting the Color Space for Self-Organizing Map Based Foreground Detection in Video. Neural Processing Letters, 2016, 43, 345-361.	2.0	8
35	Frame Size Reduction for Foreground Detection in Video Sequences. Lecture Notes in Computer Science, 2016, , 3-12.	1.0	2
36	A self-organizing map to improve vehicle detection in flow monitoring systems. Soft Computing, 2015, 19, 2499-2509.	2.1	20

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37	Robust self-organization with M-estimators. Neurocomputing, 2015, 151, 408-423.	3.5	6
38	Visualization of Complex Datasets with the Self-Organizing Spanning Tree. Lecture Notes in Computer Science, 2015, , 209-217.	1.0	1
39	BREGMAN DIVERGENCES FOR GROWING HIERARCHICAL SELF-ORGANIZING NETWORKS. International Journal of Neural Systems, 2014, 24, 1450016.	3.2	14
40	Hierarchical Color Quantization Based on Self-organization. Journal of Mathematical Imaging and Vision, 2014, 49, 1-19.	0.8	22
41	Color space selection for self-organizing map based foreground detection in video sequences. , 2014, , .		6
42	A Competitive Neural Network for Multiple Object Tracking in Video Sequence Analysis. Neural Processing Letters, 2013, 37, 47-67.	2.0	14
43	3D Hand Pose Estimation with Neural Networks. Lecture Notes in Computer Science, 2013, , 504-512.	1.0	0
44	Image Compression and Video Segmentation Using Hierarchical Self-Organization. Neural Processing Letters, 2013, 37, 69-87.	2.0	7
45	A Self-organizing Map for Traffic Flow Monitoring. Lecture Notes in Computer Science, 2013, , 458-466.	1.0	0
46	Hierarchical Self-Organizing Networks for Multispectral Data Visualization. Lecture Notes in Computer Science, 2013, , 449-457.	1.0	0
47	FOREGROUND DETECTION IN VIDEO SEQUENCES WITH PROBABILISTIC SELF-ORGANIZING MAPS. International Journal of Neural Systems, 2011, 21, 225-246.	3.2	62
48	Video and Image Processing with Self-Organizing Neural Networks. Lecture Notes in Computer Science, 2011, , 98-104.	1.0	4
49	A Multivalued Recurrent Neural Network for the Quadratic Assignment Problem. International Federation for Information Processing, 2011, , 132-140.	0.4	1
50	A Recurrent Neural Network for Channel Assignment Problems in Mobiles. Lecture Notes in Computer Science, 2010, , 406-412.	1.0	0
51	Image Hierarchical Segmentation Based on a GHSOM. Lecture Notes in Computer Science, 2009, , 743-750.	1.0	5
52	A Self-Organized Multiagent System for Intrusion Detection. Lecture Notes in Computer Science, 2009, , 84-94.	1.0	1
53	A Neural Recognition System for Manufactured Objects. Lecture Notes in Computer Science, 2009, , 1274-1281.	1.0	0
54	Spam Detection Based on a Hierarchical Self-Organizing Map. Lecture Notes in Computer Science, 2009, , 30-37.	1.0	0

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55	A neural model for the p-median problem. Computers and Operations Research, 2008, 35, 404-416.	2.4	32
56	A New GHSOM Model Applied to Network Security. Lecture Notes in Computer Science, 2008, , 680-689.	1.0	9
57	A Competitive Neural Network for Intrusion Detection Systems. Communications in Computer and Information Science, 2008, , 530-537.	0.4	2
58	Comparative analysis of modern optimization tools for the p-median problem. Statistics and Computing, 2006, 16, 251-260.	0.8	14
59	Object recognition and inspection in difficult industrial environments. , 2006, , .		7
60	RealNet: a neural network architecture for real-time systems scheduling. Neural Computing and Applications, 2004, 13, 281-287.	3.2	2
61	A Recurrent Neural Network for Airport Scales Location. Lecture Notes in Computer Science, 2004, , 107-115.	1.0	1
62	Bidirectional Neural Network for Clustering Problems. Lecture Notes in Computer Science, 2004, , 788-798.	1.0	0
63	A Statistical Validation of Vessel Segmentation in Medical Images. Lecture Notes in Computer Science, 2004, , 617-625.	1.0	0
64	New learning rules for the ASSOM network. Neural Computing and Applications, 2003, 12, 109-118.	3.2	1
65	A learning rule to model the development of orientation selectivity in visual cortex. Lecture Notes in Computer Science, 2003, , 190-197.	1.0	0
66	An Efficient Neural Network Algorithm for the p-Median Problem. Lecture Notes in Computer Science, 2002, , 460-469.	1.0	7