# Enrique Dominguez

List of Publications by Year
in descending order



| 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 | Hierarchical Color Quantization with a Neural Gas Model Based on Bregman Divergences. Advances in Intelligent Systems and Computing, 2022, , 327-337. | 0.6 | 1 |
| 2 | A Convolutional Neural Network Framework for Accurate Skin Cancer Detection. Neural Processing Letters, 2021, 53, 3073-3093. | 3.2 | 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. | 4.2 | 25 |
| 6 | Deep learning-based super-resolution of 3D magnetic resonance images by regularly spaced shifting. Neurocomputing, 2020, 398, 314-327. | 5.9 | 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. | 4.6 | 22 |
| 9 | Discrete ordered median problem with induced order. Top, 2020, 28, 793-813. | 1.6 | 1 |
| 10 | Analyzing Digital Image by Deep Learning for Melanoma Diagnosis. Lecture Notes in Computer Science, 2019, , 270-279. | 1.3 | 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. | 3.2 | 6 |
| 13 | Infering Air Quality from Traffic Data Using Transferable Neural Network Models. Lecture Notes in Computer Science, 2019, , 832-843. | 1.3 | 0 |
| 14 | Deep Learning-Based Security System Powered by Low Cost Hardware and Panoramic Cameras. Lecture Notes in Computer Science, 2019, , 317-326. | 1.3 | 0 |
| 15 | Panorama construction for PTZ camera surveillance with the neural gas network. Expert Systems, 2018, 35, e12249. | 4.5 | 3 |
| 16 | Foreground Detection by Competitive Learning for Varying Input Distributions. International Journal of Neural Systems, 2018, 28, 1750056. | 5.2 | 24 |
| 17 | The effect of noise on foreground detection algorithms. Artificial Intelligence Review, 2018, 49, 407-438. | 15.7 | 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. | 2.0 | 1 |
| 22 | Motion detection with low cost hardware for PTZ cameras. Integrated Computer-Aided Engineering, 2018, 26, 21-36. | 4.6 | 7 |
| 23 | Foreground object detection for video surveillance by fuzzy logic based estimation of pixel illumination states. Logic Journal of the IGPL, 2018, , . | 1.5 | 5 |
| 24 | Developing Cooperative Evaluation Methodologies in Higher Education. Advances in Intelligent Systems and Computing, 2018, , 706-711. | 0.6 | 0 |
| 25 | Foreground Detection Enhancement Using Pearson Correlation Filtering. Communications in Computer and Information Science, 2018, , 417-428. | 0.5 | 0 |
| 26 | Dynamic tree topology learning by self-organization. Neural Computing and Applications, 2017, 28, 911-924. | 5.6 | 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. | 1.3 | 1 |
| 30 | Motion Detection by Microcontroller for Panning Cameras. Lecture Notes in Computer Science, 2017, , 279-288. | 1.3 | 2 |
| 31 | Vehicle Classification in Traffic Environments Using the Growing Neural Gas. Lecture Notes in Computer Science, 2017, , 225-234. | 1.3 | 2 |
| 32 | Growing Neural Forest-Based Color Quantization Applied to RGB Images. International Journal of Computer Vision and Image Processing, 2017, 7, 13-25. | 0.4 | 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. | 0.4 | 1 |
| 34 | Selecting the Color Space for Self-Organizing Map Based Foreground Detection in Video. Neural Processing Letters, 2016, 43, 345-361. | 3.2 | 8 |
| 35 | Frame Size Reduction for Foreground Detection in Video Sequences. Lecture Notes in Computer Science, 2016, , 3-12. | 1.3 | 2 |
| 36 | A self-organizing map to improve vehicle detection in flow monitoring systems. Soft Computing, 2015, 19, 2499-2509. | 3.6 | 20 |

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|---|---|---|---|
| 37 | Robust self-organization with M-estimators. Neurocomputing, 2015, 151, 408-423. | 5.9 | 6 |
| 38 | Visualization of Complex Datasets with the Self-Organizing Spanning Tree. Lecture Notes in Computer Science, 2015, , 209-217. | 1.3 | 1 |
| 39 | BREGMAN DIVERGENCES FOR GROWING HIERARCHICAL SELF-ORGANIZING NETWORKS. International Journal of Neural Systems, 2014, 24, 1450016. | 5.2 | 14 |
| 40 | Hierarchical Color Quantization Based on Self-organization. Journal of Mathematical Imaging and Vision, 2014, 49, 1-19. | 1.3 | 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. | 3.2 | 14 |
| 43 | 3D Hand Pose Estimation with Neural Networks. Lecture Notes in Computer Science, 2013, , 504-512. | 1.3 | 0 |
| 44 | Image Compression and Video Segmentation Using Hierarchical Self-Organization. Neural Processing Letters, 2013, 37, 69-87. | 3.2 | 7 |
| 45 | A Self-organizing Map for Traffic Flow Monitoring. Lecture Notes in Computer Science, 2013, , 458-466. | 1.3 | 0 |
| 46 | Hierarchical Self-Organizing Networks for Multispectral Data Visualization. Lecture Notes in Computer Science, 2013, , 449-457. | 1.3 | 0 |
| 47 | FOREGROUND DETECTION IN VIDEO SEQUENCES WITH PROBABILISTIC SELF-ORGANIZING MAPS. International Journal of Neural Systems, 2011, 21, 225-246. | 5.2 | 62 |
| 48 | Video and Image Processing with Self-Organizing Neural Networks. Lecture Notes in Computer Science, 2011, , 98-104. | 1.3 | 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. | 1.3 | 0 |
| 51 | Image Hierarchical Segmentation Based on a GHSOM. Lecture Notes in Computer Science, 2009, , 743-750. | 1.3 | 5 |
| 52 | A Self-Organized Multiagent System for Intrusion Detection. Lecture Notes in Computer Science, 2009, , 84-94. | 1.3 | 1 |
| 53 | A Neural Recognition System for Manufactured Objects. Lecture Notes in Computer Science, 2009, , 1274-1281. | 1.3 | 0 |
| 54 | Spam Detection Based on a Hierarchical Self-Organizing Map. Lecture Notes in Computer Science, 2009, , 30-37. | 1.3 | 0 |

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|---|---|---|---|
| 55 | A neural model for the p-median problem. Computers and Operations Research, 2008, 35, 404-416. | 4.0 | 32 |
| 56 | A New GHSOM Model Applied to Network Security. Lecture Notes in Computer Science, 2008, , 680-689. | 1.3 | 9 |
| 57 | A Competitive Neural Network for Intrusion Detection Systems. Communications in Computer and Information Science, 2008, , 530-537. | 0.5 | 2 |
| 58 | Comparative analysis of modern optimization tools for the p-median problem. Statistics and Computing, 2006, 16, 251-260. | 1.5 | 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. | 5.6 | 2 |
| 61 | A Recurrent Neural Network for Airport Scales Location. Lecture Notes in Computer Science, 2004, , 107-115. | 1.3 | 1 |
| 62 | Bidirectional Neural Network for Clustering Problems. Lecture Notes in Computer Science, 2004, , 788-798. | 1.3 | 0 |
| 63 | A Statistical Validation of Vessel Segmentation in Medical Images. Lecture Notes in Computer Science, 2004, , 617-625. | 1.3 | 0 |
| 64 | New learning rules for the ASSOM network. Neural Computing and Applications, 2003, 12, 109-118. | 5.6 | 1 |
| 65 | A learning rule to model the development of orientation selectivity in visual cortex. Lecture Notes in Computer Science, 2003, , 190-197. | 1.3 | 0 |
| 66 | An Efficient Neural Network Algorithm for the p-Median Problem. Lecture Notes in Computer Science, 2002, , 460-469. | 1.3 | 7 |