Monica Bianchini

List of Publications by Year
in descending order

74 papers	1,442 citations	471509 17 h-index	361022 35 g-index
79 all docs	79 docs citations	79 times ranked	1254 citing authors

#	Article	IF	Citations
1	On Inductiveâ€“Transductive Learning With Graph Neural Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 758-769.	13.9	18
2	Segmentation of Petri Plate Images for Automatic Reporting of Urine Culture Tests. Intelligent Systems Reference Library, 2022, , 127-151.	1.2	2
3	Smart Gravimetric System for Enhanced Security of Accesses to Public Places Embedding a MobileNet Neural Network Classifier. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	8
4	GNNkeras: A Keras-based library for Graph Neural Networks and homogeneous and heterogeneous graph processing. SoftwareX, 2022, 18, 101061.	2.6	7
5	A Two-Stage GAN for High-Resolution Retinal Image Generation and Segmentation. Electronics (Switzerland), 2022, 11, 60.	3.1	17
6	Towards learning trustworthily, automatically, and with guarantees on graphs: An overview. Neurocomputing, 2022, 493, 217-243.	5.9	11
7	Graph-Based Integration of Histone Modification Profiles. Mathematics, 2022, 10, 1842.	2.2	2
8	Deep Learning Approaches for the Segmentation of Glomeruli in Kidney Histopathological Images. Mathematics, 2022, 10, 1934.	2.2	4
9	Structural Bioinformatics to Unveil Weaknesses of Coronavirus Spike Glycoprotein Stability. Methods in Pharmacology and Toxicology, 2021, , 203.	0.2	0
10	Prediction of Traffic Movement for Autonomous Vehicles. Studies in Computational Intelligence, 2021, , 153-168.	0.9	26
11	A new deep learning approach integrated with clinical data for the dermoscopic differentiation of early melanomas from atypical nevi. Journal of Dermatological Science, 2021, 101, 115-122.	1.9	28
12	Multi-Modal Siamese Network for Diagnostically Similar Lesion Retrieval in Prostate MRI. IEEE Transactions on Medical Imaging, 2021, 40, 986-995.	8.9	22
13	Structural bioinformatics survey on disease-inducing missense mutations. Journal of Bioinformatics and Computational Biology, 2021, 19, 2150008.	0.8	0
14	Smart gravimetric system based on Deep Learning for enhanced safety of accesses to public places. , 2021, , .		2
15	Molecular generative Graph Neural Networks for Drug Discovery. Neurocomputing, 2021, 450, 242-252.	5.9	57
16	Segmentation of Aorta 3D CT Images Based on 2D Convolutional Neural Networks. Electronics (Switzerland), 2021, 10, 2559.	3.1	12
17	Visual Sequential Search Test Analysis: An Algorithmic Approach. Mathematics, 2021, 9, 2952.	2.2	3
18	A Multi-Stage GAN for Multi-Organ Chest X-ray Image Generation and Segmentation. Mathematics, 2021, 9, 2896.	2.2	11

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19	A Mixed Statistical and Machine Learning Approach for the Analysis of Multimodal Trail Making Test Data. Mathematics, 2021, 9, 3159.	2.2	6
20	Modelling Taxi Driversâ€™ Behaviour for the Next Destination Prediction. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2980-2989.	8.0	58
21	Image generation by GAN and style transfer for agar plate image segmentation. Computer Methods and Programs in Biomedicine, 2020, 184, 105268.	4.7	53
22	Structural bioinformatic survey of protein-small molecule interfaces delineates the role of glycine in surface pocket formation. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, PP, 1-1.	3.0	2
23	AKUImg: A database of cartilage images of Alkaptonuria patients. Computers in Biology and Medicine, 2020, 122, 103863.	7.0	7
24	Editorial: RNA-Seq Analysis: Methods, Applications and Challenges. Frontiers in Genetics, 2020, 11, 220.	2.3	16
25	Weak supervision for generating pixelâ€“level annotations in scene text segmentation. Pattern Recognition Letters, 2020, 138, 1-7.	4.2	38
26	A possible strategy to fight COVID-19: Interfering with spike glycoprotein trimerization. Biochemical and Biophysical Research Communications, 2020, 528, 35-38.	2.1	21
27	Deep Learning Techniques for Dragonfly Action Recognition. , 2020, , .		0
28	A Transcriptional Study of Oncogenes and Tumor Suppressors Altered by Copy Number Variations in Ovarian Cancer. Smart Innovation, Systems and Technologies, 2020, , 159-169.	0.6	0
29	Robust Prostate Cancer Classification with Siamese Neural Networks. Lecture Notes in Computer Science, 2020, , 180-189.	1.3	1
30	Analysis of brain NMR images for age estimation with deep learning. Procedia Computer Science, 2019, 159, 981-989.	2.0	10
31	Confidence Measures for Deep Learning in Domain Adaptation. Applied Sciences (Switzerland), 2019, 9, 2192.	2.5	3
32	Glycine-induced formation and druggability score prediction of protein surface pockets. Journal of Bioinformatics and Computational Biology, 2019, 17, 1950026.	0.8	8
33	COCO_TS Dataset: Pixelâ€“Level Annotations Based on Weak Supervision for Scene Text Segmentation. Lecture Notes in Computer Science, 2019, , 238-250.	1.3	14
34	Fusion of Visual and Anamnestic Data for the Classification of Skin Lesions with Deep Learning. Lecture Notes in Computer Science, 2019, , 211-219.	1.3	8
35	Deep Neural Networks for Structured Data. Studies in Computational Intelligence, 2018, , 29-51.	0.9	6
36	Generating Bounding Box Supervision for Semantic Segmentation with Deep Learning. Lecture Notes in Computer Science, 2018, , 190-200.	1.3	7

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37	A new integrated and interactive tool applicable to inborn errors of metabolism: Application to alkaptonuria. Computers in Biology and Medicine, 2018, 103, 1-7.	7.0	17
38	A Deep Learning Approach to Bacterial Colony Segmentation. Lecture Notes in Computer Science, 2018, , 522-533.	1.3	13
39	Inductiveâ€“Transductive Learning with Graph Neural Networks. Lecture Notes in Computer Science, 2018, , 201-212.	1.3	8
40	Extraction of High Level Visual Features for the Automatic Recognition of UTIs. Lecture Notes in Computer Science, 2017, , 249-259.	1.3	2
41	An unobtrusive sleep monitoring system for the human sleep behaviour understanding. , 2016, , .		16
42	Automatic image classification for the urinoculture screening. Computers in Biology and Medicine, 2016, 70, 12-22.	7.0	20
43	A Comparative Study of Inductive and Transductive Learning with Feedforward Neural Networks. Lecture Notes in Computer Science, 2016, , 283-293.	1.3	7
44	ABLE: An Automated Bacterial Load Estimator for the Urinoculture Screening. , 2016, , .		3
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55	A Neural Network Approach for Learning Object Ranking. Lecture Notes in Computer Science, 2008, , 899-908.	1.3	5
56	Cyclostationary Neural Networks for Air Pollutant Concentration Prediction. Lecture Notes in Computer Science, 2008, , 101-112.	1.3	1
57	A Neural Network Approach to Similarity Learning. Lecture Notes in Computer Science, 2008, , 133-136.	1.3	7
58	Recursive Processing of Cyclic Graphs. IEEE Transactions on Neural Networks, 2006, 17, 10-18.	4.2	26
59	An Eye Detection System Based on Neural Autoassociators. Lecture Notes in Computer Science, 2006, , 244-252.	1.3	7
60	Object Localization Using Input/Output Recursive Neural Networks. , 2006, , .		1
61	Recursive Neural Networks and Their Applications to Image Processing. Advances in Imaging and Electron Physics, 2006, , 1-60.	0.2	3
62	Object Recognition Using Multiresolution Trees. Lecture Notes in Computer Science, 2006, , 331-339.	1.3	6
63	Recursive neural networks for processing graphs with labelled edges: theory and applications. Neural Networks, 2005, 18, 1040-1050.	5.9	42
64	Recursive neural networks learn to localize faces. Pattern Recognition Letters, 2005, 26, 1885-1895.	4.2	23
65	BackPropagation through Cyclic Structures. Lecture Notes in Computer Science, 2003, , 118-129.	1.3	1
66	Optimal algorithms for well-conditioned nonlinear systems of equations. IEEE Transactions on Computers, 2001, 50, 689-698.	3.4	17
67	Processing directed acyclic graphs with recursive neural networks. IEEE Transactions on Neural Networks, 2001, 12, 1464-1470.	4.2	24
68	Theoretical properties of recursive neural networks with linear neurons. IEEE Transactions on Neural Networks, 2001, 12, 953-967.	4.2	11
69	Terminal attractor algorithms: A critical analysis. Neurocomputing, 1997, 15, 3-13.	5.9	14
70	Optimal learning in artificial neural networks: A review of theoretical results. Neurocomputing, 1996, 13, 313-346.	5.9	39
71	Identification of parameters in polymer crystallization. Applied Numerical Mathematics, 1995, 17, 191-211.	2.1	3
72	Learning without local minima in radial basis function networks. IEEE Transactions on Neural Networks, 1995, 6, 749-756.	4.2	180

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73	Learning in multilayered networks used as autoassociators. IEEE Transactions on Neural Networks, 1995, 6, 512-515.	4.2	51
74	On the problem of local minima in recurrent neural networks. IEEE Transactions on Neural Networks, 1994, 5, 167-177.	4.2	44