

Franco Scarselli

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

5,951
citations

516710

16
h-index

214800

47
g-index

58
all docs

58
docs citations

58
times ranked

4646
citing authors

#	ARTICLE	IF	CITATIONS
1	The Graph Neural Network Model. IEEE Transactions on Neural Networks, 2009, 20, 61-80.	4.2	4,021
2	Universal Approximation Using Feedforward Neural Networks: A Survey of Some Existing Methods, and Some New Results. Neural Networks, 1998, 11, 15-37.	5.9	436
3	Inside PageRank. ACM Transactions on Internet Technology, 2005, 5, 92-128.	4.4	351
4	On the Complexity of Neural Network Classifiers: A Comparison Between Shallow and Deep Architectures. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1553-1565.	11.3	307
5	Computational Capabilities of Graph Neural Networks. IEEE Transactions on Neural Networks, 2009, 20, 81-102.	4.2	131
6	Molecular generative Graph Neural Networks for Drug Discovery. Neurocomputing, 2021, 450, 242-252.	5.9	57
7	Image generation by GAN and style transfer for agar plate image segmentation. Computer Methods and Programs in Biomedicine, 2020, 184, 105268.	4.7	53
8	Adaptive ranking of web pages. , 2003, , .		39
9	Weak supervision for generating pixel-level annotations in scene text segmentation. Pattern Recognition Letters, 2020, 138, 1-7.	4.2	38
10	SortNet: Learning to Rank by a Neural Preference Function. IEEE Transactions on Neural Networks, 2011, 22, 1368-1380.	4.2	37
11	The Vapnik-Chervonenkis dimension of graph and recursive neural networks. Neural Networks, 2018, 108, 248-259.	5.9	29
12	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
13	Recursive Processing of Cyclic Graphs. IEEE Transactions on Neural Networks, 2006, 17, 10-18.	4.2	26
14	Processing directed acyclic graphs with recursive neural networks. IEEE Transactions on Neural Networks, 2001, 12, 1464-1470.	4.2	24
15	Recursive neural networks learn to localize faces. Pattern Recognition Letters, 2005, 26, 1885-1895.	4.2	23
16	Neural networks for relational learning: an experimental comparison. Machine Learning, 2011, 82, 315-349.	5.4	22
17	Multi-Modal Siamese Network for Diagnostically Similar Lesion Retrieval in Prostate MRI. IEEE Transactions on Medical Imaging, 2021, 40, 986-995.	8.9	22
18	On Inductive-Transductive Learning With Graph Neural Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 758-769.	13.9	18

#	ARTICLE	IF	CITATIONS
19	A Two-Stage GAN for High-Resolution Retinal Image Generation and Segmentation. Electronics (Switzerland), 2022, 11, 60.	3.1	17
20	An unobtrusive sleep monitoring system for the human sleep behaviour understanding. , 2016, , .		16
21	Learning long-term dependencies using layered graph neural networks. , 2010, , .		15
22	Computing customized page ranks. ACM Transactions on Internet Technology, 2006, 6, 381-414.	4.4	14
23	COCO_TS Dataset: Pixel-level Annotations Based on Weak Supervision for Scene Text Segmentation. Lecture Notes in Computer Science, 2019, , 238-250.	1.3	14
24	A Deep Learning Approach to Bacterial Colony Segmentation. Lecture Notes in Computer Science, 2018, , 522-533.	1.3	13
25	Segmentation of Aorta 3D CT Images Based on 2D Convolutional Neural Networks. Electronics (Switzerland), 2021, 10, 2559.	3.1	12
26	Theoretical properties of recursive neural networks with linear neurons. IEEE Transactions on Neural Networks, 2001, 12, 953-967.	4.2	11
27	Solving graph data issues using a layered architecture approach with applications to web spam detection. Neural Networks, 2013, 48, 78-90.	5.9	11
28	A Study on the effects of recursive convolutional layers in convolutional neural networks. Neurocomputing, 2021, 460, 59-70.	5.9	11
29	A Multi-Stage GAN for Multi-Organ Chest X-ray Image Generation and Segmentation. Mathematics, 2021, 9, 2896.	2.2	11
30	Towards learning trustworthily, automatically, and with guarantees on graphs: An overview. Neurocomputing, 2022, 493, 217-243.	5.9	11
31	Analysis of brain NMR images for age estimation with deep learning. Procedia Computer Science, 2019, 159, 981-989.	2.0	10
32	Adaptive page ranking with neural networks. , 2005, , .		8
33	Inductive and Transductive Learning with Graph Neural Networks. Lecture Notes in Computer Science, 2018, , 201-212.	1.3	8
34	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
35	Generating Bounding Box Supervision for Semantic Segmentation with Deep Learning. Lecture Notes in Computer Science, 2018, , 190-200.	1.3	7
36	A Comparative Study of Inductive and Transductive Learning with Feedforward Neural Networks. Lecture Notes in Computer Science, 2016, , 283-293.	1.3	7

#	ARTICLE	IF	CITATIONS
37	Web Spam Detection by Probability Mapping GraphSOMs and Graph Neural Networks. Lecture Notes in Computer Science, 2010, , 372-381.	1.3	7
38	GNNkeras: A Keras-based library for Graph Neural Networks and homogeneous and heterogeneous graph processing. SoftwareX, 2022, 18, 101061.	2.6	7
39	A fully recursive perceptron network architecture. , 2017, , .		6
40	Deep Neural Networks for Structured Data. Studies in Computational Intelligence, 2018, , 29-51.	0.9	6
41	On the closure of the set of functions that can be realized by a given multilayer perceptron. IEEE Transactions on Neural Networks, 1998, 9, 1086-1098.	4.2	5

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#	ARTICLE	IF	CITATIONS
55	Advances in Neural Information Processing Paradigms. Studies in Computational Intelligence, 2009, , 1-7.	0.9	0