

Alberto Testolin

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

638
citations

623734

14
h-index

642732

23
g-index

40
all docs

40
docs citations

40
times ranked

574
citing authors

#	ARTICLE	IF	CITATIONS
1	Cognition-Based Networks: A New Perspective on Network Optimization Using Learning and Distributed Intelligence. <i>IEEE Access</i> , 2015, 3, 1512-1530.	4.2	90
2	Modeling language and cognition with deep unsupervised learning: a tutorial overview. <i>Frontiers in Psychology</i> , 2013, 4, 515.	2.1	56
3	An emergentist perspective on the origin of number sense. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170043.	4.0	48
4	Letter perception emerges from unsupervised deep learning and recycling of natural image features. <i>Nature Human Behaviour</i> , 2017, 1, 657-664.	12.0	42
5	Probabilistic Models and Generative Neural Networks: Towards an Unified Framework for Modeling Normal and Impaired Neurocognitive Functions. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 73.	2.1	37
6	A machine learning approach to QoE-based video admission control and resource allocation in wireless systems. , 2014, , .		33
7	Numerosity discrimination in deep neural networks: Initial competence, developmental refinement and experience statistics. <i>Developmental Science</i> , 2020, 23, e12940.	2.4	33
8	On the Relationship Between the Underwater Acoustic and Optical Channels. <i>IEEE Transactions on Wireless Communications</i> , 2017, 16, 8037-8051.	9.2	31
9	Deep Unsupervised Learning on a Desktop PC: A Primer for Cognitive Scientists. <i>Frontiers in Psychology</i> , 2013, 4, 251.	2.1	28
10	Visual sense of number vs. sense of magnitude in humans and machines. <i>Scientific Reports</i> , 2020, 10, 10045.	3.3	23
11	Combining Denoising Autoencoders and Dynamic Programming for Acoustic Detection and Tracking of Underwater Moving Targets. <i>Sensors</i> , 2020, 20, 2945.	3.8	21
12	QoE Multi-Stage Machine Learning for Dynamic Video Streaming. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2018, 4, 146-161.	7.9	19
13	Detecting Submerged Objects Using Active Acoustics and Deep Neural Networks: A Test Case for Pelagic Fish. <i>IEEE Transactions on Mobile Computing</i> , 2022, 21, 2776-2788.	5.8	18
14	Distributed Reinforcement Learning for Flexible and Efficient UAV Swarm Control. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2021, 7, 955-969.	7.9	17
15	Learning Orthographic Structure With Sequential Generative Neural Networks. <i>Cognitive Science</i> , 2016, 40, 579-606.	1.7	14
16	Neural Networks for Sequential Data: a Pre-training Approach based on Hidden Markov Models. <i>Neurocomputing</i> , 2015, 169, 323-333.	5.9	12
17	Machine Learning-Aided Design Of Thinned Antenna Arrays For Optimized Network Level Performance. , 2020, , .		11
18	A comparison of feature extraction methods for prediction of neuropsychological scores from functional connectivity data of stroke patients. <i>Brain Informatics</i> , 2021, 8, 8.	3.0	11

#	ARTICLE	IF	CITATIONS
19	Distributed reinforcement learning for flexible UAV swarm control with transfer learning capabilities. , 2020, , .		10
20	Learning representation hierarchies by sharing visual features: a computational investigation of Persian character recognition with unsupervised deep learning. Cognitive Processing, 2017, 18, 273-284.	1.4	9
21	The Challenge of Modeling the Acquisition of Mathematical Concepts. Frontiers in Human Neuroscience, 2020, 14, 100.	2.0	9
22	Do estimates of numerosity really adhere to Weberâ€™s law? A reexamination of two case studies. Psychonomic Bulletin and Review, 2021, 28, 158-168.	2.8	9
23	The Role of Architectural and Learning Constraints in Neural Network Models: A Case Study on Visual Space Coding. Frontiers in Computational Neuroscience, 2017, 11, 13.	2.1	7
24	Underwater Acoustic Detection and Localization with a Convolutional Denoising Autoencoder. , 2019, , .		7
25	The phase space of meaning model of psychopathology: A computer simulation modelling study. PLoS ONE, 2021, 16, e0249320.	2.5	7
26	Emergence of Network Motifs in Deep Neural Networks. Entropy, 2020, 22, 204.	2.2	6
27	Cognition-based networks: Applying cognitive science to multimedia wireless networking. , 2014, , .		5
28	COBANETS: A new paradigm for cognitive communications systems. , 2016, , .		4
29	Deep learning systems as complex networks. Journal of Complex Networks, 2019, , .	1.8	4
30	Poor numerical performance of guppies tested in a Skinner box. Scientific Reports, 2020, 10, 16724.	3.3	4
31	Numerosity Representation in InfoGAN: An Empirical Study. Lecture Notes in Computer Science, 2019, , 49-60.	1.3	2
32	Enabling Simulation-Based Optimization through Machine Learning: A Case Study on Antenna Design. , 2019, , .		2
33	Learning Numerosity Representations with Transformers: Number Generation Tasks and Out-of-Distribution Generalization. Entropy, 2021, 23, 857.	2.2	2
34	A Systematic Assessment of Feature Extraction Methods for Robust Prediction of Neuropsychological Scores from Functional Connectivity Data. Lecture Notes in Computer Science, 2020, , 29-40.	1.3	2
35	Bilingualism advantage in handwritten character recognition: A deep learning investigation on Persian and Latin scripts. , 2017, , .		1
36	Long-Term Prediction of Physical Interactions: A Challenge for Deep Generative Models. Lecture Notes in Computer Science, 2020, , 83-94.	1.3	0