Thomas Martinetz

List of Publications by Year
in descending order

30	998	516710 16	477307 29
papers	citations	h-index	g-index

33	33	33	986
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	AFP-Pred: A random forest approach for predicting antifreeze proteins from sequence-derived properties. Journal of Theoretical Biology, 2011, 270, 56-62.	1.7	226
2	Explainable COVID-19 Detection Using Chest CT Scans and Deep Learning. Sensors, 2021, 21, 455.	3.8	143
3	Simple Method for High-Performance Digit Recognition Based on Sparse Coding. IEEE Transactions on Neural Networks, 2008, 19, 1985-1989.	4.2	72
4	Ensembles of Deep Learning Models and Transfer Learning for Ear Recognition. Sensors, 2019, 19, 4139.	3.8	57
5	Sparse Coding Neural Gas: Learning of overcomplete data representations. Neurocomputing, 2009, 72, 1547-1555.	5.9	47
6	Intrinsic Dimensionality Predicts the Saliency of Natural Dynamic Scenes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1080-1091.	13.9	40
7	Deep Convolutional Neural Networks for Unconstrained Ear Recognition. IEEE Access, 2020, 8, 170295-170310.	4.2	40
8	Handcrafted versus CNN Features for Ear Recognition. Symmetry, 2019, 11, 1493.	2.2	39
9	COVID-Nets: deep CNN architectures for detecting COVID-19 using chest CT scans. PeerJ Computer Science, 2021, 7, e655.	4.5	34
10	SPRED: A machine learning approach for the identification of classical and non-classical secretory proteins in mammalian genomes. Biochemical and Biophysical Research Communications, 2010, 391, 1306-1311.	2.1	33
11	Eye movement predictions on natural videos. Neurocomputing, 2006, 69, 1996-2004.	5.9	26
12	Towards Explainable Ear Recognition Systems Using Deep Residual Networks. IEEE Access, 2021, 9, 122254-122273.	4.2	26
13	Ensemble Deep Learning and Internet of Things-Based Automated COVID-19 Diagnosis Framework. Contrast Media and Molecular Imaging, 2022, 2022, 1-10.	0.8	26
14	Modeling the effect of sleep regulation on a neural mass model. Journal of Computational Neuroscience, 2016, 41, 15-28.	1.0	23
15	EcmPred: Prediction of extracellular matrix proteins based on random forest with maximum relevance minimum redundancy feature selection. Journal of Theoretical Biology, 2013, 317, 377-383.	1.7	21
16	Characterization of K-Complexes and Slow Wave Activity in a Neural Mass Model. PLoS Computational Biology, 2014, 10, e1003923.	3.2	21
17	Self-organizing maps for hand and full body tracking. Neurocomputing, 2015, 147, 174-184.	5.9	18
18	Eye Movements Show Optimal Average Anticipation with Natural Dynamic Scenes. Cognitive Computation, 2011, 3, 79-88.	5.2	16

#	Article	IF	Citations
19	Robust and Fast Learning of Sparse Codes With Stochastic Gradient Descent. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 1048-1060.	10.8	13
20	Deictic Gestures with a Time-of-Flight Camera. Lecture Notes in Computer Science, 2010, , 110-121.	1.3	12
21	Soft-competitive learning of sparse codes and its application to image reconstruction. Neurocomputing, 2011, 74, 1418-1428.	5.9	9
22	The phase response of the cortical slow oscillation. Cognitive Neurodynamics, 2012, 6, 367-375.	4.0	9
23	Guiding Eye Movements for Better Communication and Augmented Vision. Lecture Notes in Computer Science, 2006, , 1-8.	1.3	9
24	A Learned Saliency Predictor for Dynamic Natural Scenes. Lecture Notes in Computer Science, 2010, , 52-61.	1.3	7
25	Trading Stocks Based on Financial News Using Attention Mechanism. Mathematics, 2022, 10, 2001.	2.2	6
26	Multivariate and Online Prediction of Closing Price Using Kernel Adaptive Filtering. Computational Intelligence and Neuroscience, 2021, 2021, 1-14.	1.7	3
27	A computational study of suppression of sharp wave ripple complexes by controlling calcium and gap junctions in pyramidal cells. Bioengineered, 2021, 12, 2603-2615.	3.2	2
28	Approaching the Time Dependent Cocktail Party Problem with Online Sparse Coding Neural Gas. Lecture Notes in Computer Science, 2009, , 145-153.	1.3	1
29	Sparse Coding and Selected Applications. KI - Kunstliche Intelligenz, 2012, 26, 349-355.	3.2	0
30	Dynamics of the thalamo-cortical system driven by pulsed sensory stimulation. BMC Neuroscience, 2013, 14, .	1.9	0