Thomas P Trappenberg

List of Publications by Year
in descending order

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		471509	330143
86	1,505	17	37
papers	citations	h-index	g-index

92	92	92	1802
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exemplar scoring identifies genetically separable phenotypes of lithium responsive bipolar disorder. Translational Psychiatry, 2021, 11, 36.	4.8	16
2	Prediction of lithium response using genomic data. Scientific Reports, 2021, 11, 1155.	3.3	11
3	Plankton classification with high-throughput submersible holographic microscopy and transfer learning. Bmc Ecology and Evolution, 2021, 21, 123.	1.6	13
4	A scoping review and comparison of approaches for measuring genetic heterogeneity in psychiatric disorders. Psychiatric Genetics, 2021, Publish Ahead of Print, .	1.1	1
5	Using structural MRI to identify bipolar disorders â€“ 13 site machine learning study in 3020 individuals from the ENIGMA Bipolar Disorders Working Group. Molecular Psychiatry, 2020, 25, 2130-2143.	7.9	127
6	Prediction of lithium response using clinical data. Acta Psychiatrica Scandinavica, 2020, 141, 131-141.	4.5	50
7	Learning dynamic weights for an ensemble of deep models applied to medical imaging classification. , 2020, , .		3
8	On Out-of-Distribution Detection Algorithms with Deep Neural Skin Cancer Classifiers. , 2020, , .		23
9	The definition and measurement of heterogeneity. Translational Psychiatry, 2020, 10, 299.	4.8	20
10	Multiplicative Decomposition of Heterogeneity in Mixtures of Continuous Distributions. Entropy, 2020, 22, 858.	2.2	1
11	Asymmetrical reliability of the Alda score favours a dichotomous representation of lithium responsiveness. PLoS ONE, 2020, 15, e0225353.	2.5	8
12	Representational RÃ©nyi Heterogeneity. Entropy, 2020, 22, 417.	2.2	6
13	We need an operational framework for heterogeneity in psychiatric research. Journal of Psychiatry and Neuroscience, 2020, 45, 3-6.	2.4	10
14	Measuring heterogeneity in normative models as the effective number of deviation patterns. PLoS ONE, 2020, 15, e0242320.	2.5	2
15	Title is missing!. , 2020, 15, e0225353.		0
16	Title is missing!. , 2020, 15, e0225353.		0
17	Title is missing!. , 2020, 15, e0225353.		0
18	Title is missing!. , 2020, 15, e0225353.		0

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19	Measuring heterogeneity in normative models as the effective number of deviation patterns. , 2020, 15, e0242320.		0
20	Measuring heterogeneity in normative models as the effective number of deviation patterns. , 2020, 15, e0242320.		0
21	Measuring heterogeneity in normative models as the effective number of deviation patterns. , 2020, 15, e0242320.		0
22	Measuring heterogeneity in normative models as the effective number of deviation patterns. , 2020, 15, e0242320.		0
23	Mitigating Overfitting Using Regularization to Defend Networks Against Adversarial Examples. Lecture Notes in Computer Science, 2019, , 400-405.	1.3	1
24	A Novel Model for Arbitration Between Planning and Habitual Control Systems. Frontiers in Neurorobotics, 2019, 13, 52.	2.8	5
25	Using a Deep CNN for Automatic Classification of Sleep Spindles: A Preliminary Study. Lecture Notes in Computer Science, 2019, , 570-575.	1.3	0
26	Supervised Versus Unsupervised Deep Learning Based Methods for Skin Lesion Segmentation in Dermoscopy Images. Lecture Notes in Computer Science, 2019, , 373-379.	1.3	7
27	Model-free prostate cancer segmentation from dynamic contrast-enhanced MRI with recurrent convolutional networks: A feasibility study. Computerized Medical Imaging and Graphics, 2019, 75, 14-23.	5.8	14
28	Modeling Saccadic Action Selection: Cortical and Basal Ganglia Signals Coalesce in the Superior Colliculus. Frontiers in Systems Neuroscience, 2019, 13, 3.	2.5	14
29	A Deep Learning Based Approach to Skin Lesion Border Extraction With a Novel Edge Detector in Dermoscopy Images. , 2019, , .		11
30	Learning Adaptive Weight Masking for Adversarial Examples. , 2019, , .		0
31	Topographic representation adds robustness to supervised learning. Journal of Intelligent and Fuzzy Systems, 2019, 36, 3249-3262.	1.4	3
32	Learning what matters: A neural explanation for the sparsity bias. International Journal of Psychophysiology, 2018, 127, 62-72.	1.0	3
33	Mixing Habits and Planning for Multi-Step Target Reaching Using Arbitrated Predictive Actor-Critic. , 2018, , .		2
34	Words Are Not Temporal Sequences of Characters. , 2018, , .		0
35	In vivo classification of inflammation in blood vessels with convolutional neural networks. , 2017, , .		3
36	Impact of biased mislabeling on learning with deep networks. , 2017, , .		4

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37	A Neural Field Approach to Obstacle Avoidance. Lecture Notes in Computer Science, 2016, , 69-87.	1.3	1
38	Classifier with hierarchical topographical maps as internal representation. , 2015, , .		2
39	Detection of event-related potentials in individual subjects using support vector machines. Brain Informatics, 2015, 2, 1-12.	3.0	18
40	A biological mechanism for Bayesian feature selection: Weight decay and raising the LASSO. Neural Networks, 2015, 67, 121-130.	5.9	13
41	A rapid event-related potential (ERP) method for point-of-care evaluation of brain function: Development of the Halifax Consciousness Scanner. Journal of Neuroscience Methods, 2015, 245, 64-72.	2.5	26
42	Modeling human target reaching with an adaptive observer implemented with dynamic neural fields. Neural Networks, 2015, 72, 13-30.	5.9	15
43	Learning-Regulated Context Relevant Topographical Map. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2323-2335.	11.3	18
44	An elemental model of retrospective revaluation without within-compound associations. Learning and Behavior, 2014, 42, 22-38.	1.0	7
45	Visualizing Hierarchical Representation in a Multilayered Restricted RBF Network. Lecture Notes in Computer Science, 2014, , 339-346.	1.3	1
46	Calcium-Dependent Calcium Decay Explains STDP in a Dynamic Model of Hippocampal Synapses. PLoS ONE, 2014, 9, e86248.	2.5	14
47	A Brief Introduction to Probabilistic Machine Learning and Its Relation to Neuroscience. Studies in Computational Intelligence, 2014, , 61-108.	0.9	0
48	Improved Path Integration Using a Modified Weight Combination Method. Cognitive Computation, 2013, 5, 295-306.	5.2	5
49	Classificability-regulated self-organizing map using restricted RBF. , 2013, , .		6
50	Biologically plausible feature selection through relative correlation. , 2013, , .		0
51	Sparse coding and challenges for Bayesian models of the brain. Behavioral and Brain Sciences, 2013, 36, 232-233.	0.7	6
52	Bubbles in the robot. , 2013, , .		0
53	Spatial Interactions in the Superior Colliculus Predict Saccade Behavior in a Neural Field Model. Journal of Cognitive Neuroscience, 2012, 24, 315-336.	2.3	56
54	Internal representation of sensory information for training autonomous robot. , 2012, , .		0

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55	Internal topographical structure in training autonomous robot. , 2011, , .		3
56	A new functional role for lateral inhibition in the striatum: Pavlovian conditioning. Nature Precedings, 2011, , .	0.1	0
57	Modeling inhibition of return as short-term depression of early sensory input to the superior colliculus. Vision Research, 2011, 51, 987-996.	1.4	38
58	Comparison of Learned versus Engineered Features for Classification of Mine Like Objects from Raw Sonar Images. Lecture Notes in Computer Science, 2011, , 174-185.	1.3	3
59	Selective attention improves self-organization of cortical maps with multiple inputs. , 2010, , .		1
60	Overlap versus Imbalance. Lecture Notes in Computer Science, 2010, , 220-231.	1.3	62
61	Detection of Mine-Like Objects Using Restricted Boltzmann Machines. Lecture Notes in Computer Science, 2010, , 362-365.	1.3	0
62	Learning intialized by topologically correct representation. , 2009, , .		0
63	Are binary synapses superior to graded weight representations in stochastic attractor networks?. Cognitive Neurodynamics, 2009, 3, 243-250.	4.0	11
64	Top-Down Control of Learning in Biological Self-Organizing Maps. Lecture Notes in Computer Science, 2009, , 316-324.	1.3	8
65	Tracking population densities using dynamic neural fields with moderately strong inhibition. Cognitive Neurodynamics, 2008, 2, 171-177.	4.0	6
66	Modeling the integration of expectations in visual search with centre-surround neural fields. Neural Networks, 2008, 21, 1476-1492.	5.9	1
67	Dynamics of Population Decoding with Strong Inhibition. , 2008, , 187-191.		1
68	The Trouble with Weight-Dependent STDP. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	3
69	Computational consequences of experimentally derived spike-time and weight dependent plasticity rules. Biological Cybernetics, 2007, 96, 615-623.	1.3	21
70	Rapid learning and robust recall of long sequences in modular associator networks. Neurocomputing, 2006, 69, 634-641.	5.9	14
71	Modelling divided visual attention with a winner-take-all network. Neural Networks, 2005, 18, 620-627.	5.9	33
72	Multi-packet regions in stabilized continuous attractor networks. Neurocomputing, 2005, 65-66, 617-622.	5.9	10

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73	Self-organizing continuous attractor network models of hippocampal spatial view cells. Neurobiology of Learning and Memory, 2005, 83, 79-92.	1.9	47
74	A unified model of spatial and episodic memory. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 1087-1093.	2.6	77
75	Selecting inputs for modeling using normalized higher order statistics and independent component analysis. IEEE Transactions on Neural Networks, 2001, 12, 612-617.	4.2	51
76	A Model of Saccade Initiation Based on the Competitive Integration of Exogenous and Endogenous Signals in the Superior Colliculus. Journal of Cognitive Neuroscience, 2001, 13, 256-271.	2.3	438
77	Generating oculomotor and neuronal behavior in a neural field model of the superior colliculus. Behavioral and Brain Sciences, 1999, 22, 700-701.	0.7	1
78	Quark-hadron phase transition, QCD lattice calculations, and inhomogeneous big-bang nucleosynthesis. Physical Review D, 1994, 50, 4881-4885.	4.7	4
79	Development of massively parallel applications. Computer Physics Communications, 1994, 81, 153-162.	7.5	3
80	Bank conflict resolution. Computer Physics Communications, 1994, 83, 125-129.	7.5	0
81	An efficiently microtasked CRAY Y-MP C90 version of the Kuba-Moriarty SU (3) gauge theory simulation program. Computer Physics Communications, 1993, 76, 87-97.	7.5	1
82	The eigenvalue spectra in Z(2) âŠ— Z(2) and SU(2) âŠ— SU(2) fermion-Higgs models. Nuclear Physics B, 1992, 368, 390-412.	2.5	11
83	Search for an upper bound of the renormalized Yukawa coupling in a lattice fermion-Higgs model. Nuclear Physics B, 1992, 371, 683-712.	2.5	25
84	Surface tension from finite-volume vacuum tunneling in the 3D Ising model. Journal of Statistical Physics, 1990, 58, 185-198.	1.2	30
85	Broken phase of the 4-dimensional Ising model in a finite volume. Nuclear Physics B, 1989, 322, 698-720.	2.5	50
86	Cognitive neuroscience. , 0, , 235-256.		1