Tom M Heskes

List of Publications by Year
in descending order

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175 papers	6,550 citations	126907 33 h-index	95266 68 g-index
186 all docs	186 docs citations	186 times ranked	13378 citing authors

#	Article	IF	Citations
1	Development and validation of the patient-reported â€œFacial Function Scaleâ€•for facioscapulohumeral muscular dystrophy. Disability and Rehabilitation, 2023, 45, 1530-1535.	1.8	2
2	Understanding the assumptions underlying Mendelian randomization. European Journal of Human Genetics, 2022, 30, 653-660.	2.8	40
3	Discovering Ecological Relationships in Flowing Freshwater Ecosystems. Frontiers in Ecology and Evolution, 2022, 9, .	2.2	2
4	Non-parametric synergy modeling of chemical compounds with Gaussian processes. BMC Bioinformatics, 2022, 23, 14.	2.6	3
5	Towards individualized monitoring of cognition in multiple sclerosis in the digital era: A one-year cohort study. Multiple Sclerosis and Related Disorders, 2022, 60, 103692.	2.0	5
6	Probabilistic Modelling of Gait for Robust Passive Monitoring in Daily Life. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2293-2304.	6.3	8
7	Estimating the Effect of Early Treatment Initiation in Parkinson's Disease Using Observational Data. Movement Disorders, 2021, 36, 407-414.	3.9	5
8	Semiâ€automated Rasch analysis using inâ€plusâ€outâ€ofâ€questionnaire log likelihood. British Journal of Mathematical and Statistical Psychology, 2021, 74, 313-339.	1.4	3
9	Spectral Ranking of Causal Influence in Complex Systems. Entropy, 2021, 23, 369.	2.2	1
10	Methodology of the DCCSS later fatigue study: a model to investigate chronic fatigue in long-term survivors of childhood cancer. BMC Medical Research Methodology, 2021, 21, 106.	3.1	8
11	Potential mechanisms of the fatigueâ€reducing effect of cognitiveâ€behavioral therapy in cancer survivors: Three randomized controlled trials. Psycho-Oncology, 2021, 30, 1476-1484.	2.3	11
12	Role of conduct problems in the relation between Attention-Deficit Hyperactivity disorder, substance use, and gaming. European Neuropsychopharmacology, 2020, 30, 102-113.	0.7	8
13	Inferring the direction of a causal link and estimating its effect via a Bayesian Mendelian randomization approach. Statistical Methods in Medical Research, 2020, 29, 1081-1111.	1.5	16
14	Disentangling drivers of spatial autocorrelation in species distribution models. Ecography, 2020, 43, 1741-1751.	4.5	13
15	PrimaVera: Synergising Predictive Maintenance. Applied Sciences (Switzerland), 2020, 10, 8348.	2.5	8
16	Investigating the effect of dependence between conditions with Bayesian Linear Mixed Models for motif activity analysis. PLoS ONE, 2020, 15, e0231824.	2.5	0
17	Structural and functional MRI of altered brain development in a novel adolescent rat model of quinpirole-induced compulsive checking behavior. European Neuropsychopharmacology, 2020, 33, 58-70.	0.7	7
18	Identification and validation of risk factors for antisocial behaviour involving police. Psychiatry Research, 2020, 291, 113208.	3.3	7

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19	Real-Life Gait Performance as a Digital Biomarker for Motor Fluctuations: The Parkinson@Home Validation Study. Journal of Medical Internet Research, 2020, 22, e19068.	4.3	39
20	Measuring Parkinson's disease over time: The realâ€world withinâ€subject reliability of the MDSâ€UPDRS. Movement Disorders, 2019, 34, 1480-1487.	3.9	100
21	Stable Specification Search in Structural Equation Models with Latent Variables. ACM Transactions on Intelligent Systems and Technology, 2019, 10, 1-23.	4.5	3
22	Large-scale local causal inference of gene regulatory relationships. International Journal of Approximate Reasoning, 2019, 115, 50-68.	3.3	2
23	Hierarchical Bayesian inference for concurrent model fitting and comparison for group studies. PLoS Computational Biology, 2019, 15, e1007043.	3.2	63
24	MSH3 modifies somatic instability and disease severity in Huntingtonâ€™s and myotonic dystrophy type 1. Brain, 2019, 142, 1876-1886.	7.6	114
25	Application of A Causal Discovery Model to Study The Effect of Iron Supplementation in Children with Iron Deficiency Anemia. , 2019, , .		2
26	Constraining the parameters of high-dimensional models with active learning. European Physical Journal C, 2019, 79, 1.	3.9	11
27	Additive Dose Response Models: Defining Synergy. Frontiers in Pharmacology, 2019, 10, 1384.	3.5	29
28	A novel Bayesian approach for latent variable modeling from mixed data with missing values. Statistics and Computing, 2019, 29, 977-993.	1.5	5
29	Learning causal structure from mixed data with missing values using Gaussian copula models. Statistics and Computing, 2019, 29, 311-333.	1.5	11
30	Bigger Buffer k-d Trees on Multi-Many-Core Systems. Lecture Notes in Computer Science, 2019, , 202-214.	1.3	0
31	A scalable preference model for autonomous decision-making. Machine Learning, 2018, 107, 1039-1068.	5.4	4
32	Causality on longitudinal data: Stable specification search in constrained structural equation modeling. Statistical Methods in Medical Research, 2018, 27, 3814-3834.	1.5	7
33	Bayesian data integration for quantifying the contribution of diverse measurements to parameter estimates. Bioinformatics, 2018, 34, 803-811.	4.1	6
34	The stablespec package for causal discovery on cross-sectional and longitudinal data in R. Neurocomputing, 2018, 275, 2440-2443.	5.9	2
35	Conditional and interaction gene-set analysis reveals novel functional pathways for blood pressure. Nature Communications, 2018, 9, 3768.	12.8	50
36	Additive Dose Response Models: Explicit Formulation and the Loewe Additivity Consistency Condition. Frontiers in Pharmacology, 2018, 9, 31.	3.5	75

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37	Cognitive behavioural therapy with optional graded exercise therapy in patients with severe fatigue with myotonic dystrophy type 1: a multicentre, single-blind, randomised trial. Lancet Neurology, The, 2018, 17, 671-680.	10.2	95
38	Deep multi-scale location-aware 3D convolutional neural networks for automated detection of lacunes of presumed vascular origin. NeuroImage: Clinical, 2017, 14, 391-399.	2.7	99
39	A Causal and Mediation Analysis of the Comorbidity Between Attention Deficit Hyperactivity Disorder (ADHD) and Autism Spectrum Disorder (ASD). Journal of Autism and Developmental Disorders, 2017, 47, 1595-1604.	2.7	86
40	Multi-Domain Transfer Component Analysis for Domain Generalization. Neural Processing Letters, 2017, 46, 845-855.	3.2	25
41	Handling hybrid and missing data in constraint-based causal discovery to study the etiology of ADHD. International Journal of Data Science and Analytics, 2017, 3, 105-119.	4.1	6
42	Convolutional neural networks for transient candidate vetting in large-scale surveys. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3101-3114.	4.4	32
43	RankProd 2.0: a refactored bioconductor package for detecting differentially expressed features in molecular profiling datasets. Bioinformatics, 2017, 33, 2774-2775.	4.1	113
44	Location Sensitive Deep Convolutional Neural Networks for Segmentation of White Matter Hyperintensities. Scientific Reports, 2017, 7, 5110.	3.3	171
45	Exact p-values for pairwise comparison of Friedman rank sums, with application to comparing classifiers. BMC Bioinformatics, 2017, 18, 68.	2.6	82
46	Causality on cross-sectional data: Stable specification search in constrained structural equation modeling. Applied Soft Computing Journal, 2017, 52, 687-698.	7.2	13
47	Robust Estimation of Gaussian Copula Causal Structure from Mixed Data with Missing Values. , 2017, , .		3
48	Massively-parallel best subset selection for ordinary least-squares regression. , 2017, , .		1
49	Automated detection of white matter hyperintensities of all sizes in cerebral small vessel disease. Medical Physics, 2016, 43, 6246-6258.	3.0	59
50	The statistical properties of gene-set analysis. Nature Reviews Genetics, 2016, 17, 353-364.	16.3	230
51	Copula PC Algorithm for Causal Discovery from Mixed Data. Lecture Notes in Computer Science, 2016, , 377-392.	1.3	17
52	Non-uniform patch sampling with deep convolutional neural networks for white matter hyperintensity segmentation. , 2016, , .		41
53	BCM: toolkit for Bayesian analysis of Computational Models using samplers. BMC Systems Biology, 2016, 10, 100.	3.0	12
54	A single-layer network unsupervised feature learning method for white matter hyperintensity segmentation. , 2016, , .		1

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55	Sparse Approximate Inference for Spatio-Temporal Point Process Models. Journal of the American Statistical Association, 2016, 111, 1746-1763.	3.1	13
56	Statistical Evidence Suggests that Inattention Drives Hyperactivity/Impulsivity in Attention Deficit-Hyperactivity Disorder. PLoS ONE, 2016, 11, e0165120.	2.5	17
57	Exploring Constraint: Simulating Self-Organization and Autogenesis in the Autogenic Automaton. , 2016, , .		0
58	Expectation Propagation. , 2016, , 1-6.		0
59	Causal discovery in an adult ADHD data set suggests indirect link between DAT1 genetic variants and striatal brain activation during reward processing. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2015, 168, 508-515.	1.7	19
60	Cognitive behaviour therapy plus aerobic exercise training to increase activity in patients with myotonic dystrophy type 1 (DM1) compared to usual care (OPTIMISTIC): study protocol for randomised controlled trial. Trials, 2015, 16, 224.	1.6	49
61	Probabilistic Clustering of the Human Connectome Identifies Communities and Hubs. PLoS ONE, 2015, 10, e0117179.	2.5	25
62	Hidden Markov Models for Reading Words from the Human Brain. , 2015, , .		0
63	MAGMA: Generalized Gene-Set Analysis of GWAS Data. PLoS Computational Biology, 2015, 11, e1004219.	3.2	2,344
64	A Bayesian Framework for Combining Protein and Network Topology Information for Predicting Protein-Protein Interactions. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2015, 12, 538-550.	3.0	11
65	Small white matter lesion detection in cerebral small vessel disease. Proceedings of SPIE, 2015, , .	0.8	3
66	Domain Generalization Based on Transfer Component Analysis. Lecture Notes in Computer Science, 2015, , 325-334.	1.3	11
67	Causal Discovery from Medical Data: Dealing with Missing Values and a Mixture of Discrete and Continuous Data. Lecture Notes in Computer Science, 2015, , 177-181.	1.3	5
68	Batch Steepest-Descent-Mildest-Ascent for Interactive Maximum Margin Clustering. Lecture Notes in Computer Science, 2015, , 95-107.	1.3	1
69	Bayesian Estimation of Conditional Independence Graphs Improves Functional Connectivity Estimates. PLoS Computational Biology, 2015, 11, e1004534.	3.2	14
70	KeCo: Kernel-Based Online Co-agreement Algorithm. Lecture Notes in Computer Science, 2015, , 308-315.	1.3	0
71	Quantifying uncertainty in brain network measures using Bayesian connectomics. Frontiers in Computational Neuroscience, 2014, 8, 126.	2.1	9
72	A comparative study of cell classifiers for image-based high-throughput screening. BMC Bioinformatics, 2014, 15, 342.	2.6	12

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73	Causal Discovery from Databases with Discrete and Continuous Variables. Lecture Notes in Computer Science, 2014, , 442-457.	1.3	9
74	Efficient sampling of Gaussian graphical models using conditional Bayes factors. Stat, 2014, 3, 326-336.	0.4	6
75	Motion history images for online speaker/signer diarization. , 2014, , .		7
76	A fast algorithm for determining bounds and accurate approximate p-values of the rank product statistic for replicate experiments. BMC Bioinformatics, 2014, 15, 367.	2.6	23
77	Using Topology Information for Protein-Protein Interaction Prediction. Lecture Notes in Computer Science, 2014, , 10-22.	1.3	3
78	Premise Selection for Mathematics by Corpus Analysis and Kernel Methods. Journal of Automated Reasoning, 2014, 52, 191-213.	1.4	67
79	Gaussian mixture models improve fMRI-based image reconstruction. , 2014, , .		3
80	Empirical Bayesian Random Censoring Threshold Model Improves Detection of Differentially Abundant Proteins. Journal of Proteome Research, 2014, 13, 3871-3880.	3.7	20
81	Structurally-informed Bayesian functional connectivity analysis. NeuroImage, 2014, 86, 294-305.	4.2	42
82	Gaussian mixture models and semantic gating improve reconstructions from human brain activity. Frontiers in Computational Neuroscience, 2014, 8, 173.	2.1	17
83	Unsupervised Feature Learning for Visual Sign Language Identification. , 2014, , .		5
84	Mutual Information Estimation with Random Forests. Lecture Notes in Computer Science, 2014, , 524-531.	1.3	1
85	Linear reconstruction of perceived images from human brain activity. NeuroImage, 2013, 83, 951-961.	4.2	103
86	The exact probability distribution of the rank product statistics for replicated experiments. FEBS Letters, 2013, 587, 677-682.	2.8	33
87	Automatic Signer Diarization - The Mover Is the Signer Approach. , 2013, , .		2
88	Efficiently learning the preferences of people. Machine Learning, 2013, 90, 1-28.	5.4	15
89	A direct comparison of visual discrimination of shape and size on a large range of aspect ratios. Vision Research, 2013, 91, 84-92.	1.4	4
90	A Bayesian psychophysical model for angular variables. Journal of Mathematical Psychology, 2013, 57, 134-139.	1.8	1

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91	Bayesian inference of structural brain networks. NeuroImage, 2013, 66, 543-552.	4.2	25
92	Bayesian Sparse Partial Least Squares. Neural Computation, 2013, 25, 3318-3339.	2.2	17
93	The gesturer is the speaker. , 2013, , .		14
94	Automatic sign language identification. , 2013, , .		15
95	Composite Survival Index to Compare Virulence Changes in Azole-Resistant Aspergillus fumigatus Clinical Isolates. PLoS ONE, 2013, 8, e72280.	2.5	20
96	Neighborhood Co-regularized Multi-view Spectral Clustering of Microbiome Data. Lecture Notes in Computer Science, 2013, , 80-90.	1.3	11
97	Multi-view Multi-class Classification for Identification of Pathogenic Bacterial Strains. Lecture Notes in Computer Science, 2013, , 61-72.	1.3	0
98	Molecular Machines in the Synapse: Overlapping Protein Sets Control Distinct Steps in Neurosecretion. PLoS Computational Biology, 2012, 8, e1002450.	3.2	6
99	On the decoding of intracranial data using sparse orthonormalized partial least squares. Journal of Neural Engineering, 2012, 9, 026017.	3.5	18
100	A Linear Gaussian Framework for Decoding of Perceived Images. , 2012, , .		0
101	Overview and Evaluation of Premise Selection Techniques for Large Theory Mathematics. Lecture Notes in Computer Science, 2012, , 378-392.	1.3	28
102	Online Co-regularized Algorithms. Lecture Notes in Computer Science, 2012, , 184-193.	1.3	7
103	The Dynamic Beamformer. Lecture Notes in Computer Science, 2012, , 148-155.	1.3	1
104	Covert Attention as a Paradigm for Subject-Independent Brain-Computer Interfacing. Lecture Notes in Computer Science, 2012, , 156-163.	1.3	0
105	Dynamic decoding of ongoing perception. NeuroImage, 2011, 57, 950-957.	4.2	10
106	Lateralized responses during covert attention are modulated by target eccentricity. Neuroscience Letters, 2011, 491, 35-39.	2.1	19
107	Predicting Preference Judgments of Individual Normal and Hearing-Impaired Listeners With Gaussian Processes. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 811-821.	3.2	1
108	Learning from Multiple Annotators with Gaussian Processes. Lecture Notes in Computer Science, 2011, , 159-164.	1.3	27

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109	Editorial: One Year as EiC, and Editorial-Board Changes at TNN. IEEE Transactions on Neural Networks, 2011, 22, 1-7.	4.2	5
110	Semantic Graph Kernels for Automated Reasoning. , 2011, , .		12
111	Learning2Reason. Lecture Notes in Computer Science, 2011, , 298-300.	1.3	0
112	A Markov Random Field Approach to Neural Encoding and Decoding. Lecture Notes in Computer Science, 2011, , 1-8.	1.3	1
113	Multi-task preference learning with an application to hearing aid personalization. Neurocomputing, 2010, 73, 1177-1185.	5.9	22
114	Covert attention allows for continuous control of brainâ€“computer interfaces. European Journal of Neuroscience, 2010, 31, 1501-1508.	2.6	63
115	Neural Decoding with Hierarchical Generative Models. Neural Computation, 2010, 22, 3127-3142.	2.2	57
116	Efficient Bayesian multivariate fMRI analysis using a sparsifying spatio-temporal prior. NeuroImage, 2010, 50, 150-161.	4.2	65
117	Gene regulation in the intraerythrocytic cycle of Plasmodium falciparum. Bioinformatics, 2009, 25, 1484-1491.	4.1	14
118	Selecting features for BCI control based on a covert spatial attention paradigm. Neural Networks, 2009, 22, 1271-1277.	5.9	46
119	Interpreting single trial data using groupwise regularisation. NeuroImage, 2009, 46, 665-676.	4.2	37
120	Learning symmetric causal independence models. Machine Learning, 2008, 71, 133-153.	5.4	5
121	Semi-blind identification of movement-related magnetoencephalogram components using a classification approach. , 2008, 2008, 2618-21.		1
122	Haplotype Inference in General Pedigrees Using the Cluster Variation Method. Genetics, 2007, 177, 1101-1116.	2.9	10
123	Learning and approximate inference in dynamic hierarchical models. Computational Statistics and Data Analysis, 2007, 52, 821-839.	1.2	5
124	Predicting carcinoid heart disease with the noisy-threshold classifier. Artificial Intelligence in Medicine, 2007, 40, 45-55.	6.5	23
125	Expectation Propagation for Rating Players in Sports Competitions. Lecture Notes in Computer Science, 2007, , 374-381.	1.3	5
126	Deterministic and Stochastic Gaussian Particle Smoothing. , 2006, , .		0

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127	Deterministic approximate inference techniques for conditionally Gaussian state space models. Statistics and Computing, 2006, 16, 279-292.	1.5	8
128	EM Algorithm for Symmetric Causal Independence Models. Lecture Notes in Computer Science, 2006, , 234-245.	1.3	1
129	Approximate inference techniques with expectation constraints. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P11015-P11015.	2.3	27
130	Novel approximations for inference in nonlinear dynamical systems using expectation propagation. Neurocomputing, 2005, 69, 85-99.	5.9	14
131	On the Uniqueness of Loopy Belief Propagation Fixed Points. Neural Computation, 2004, 16, 2379-2413.	2.2	76
132	Improving Cox survival analysis with a neural-Bayesian approach. Statistics in Medicine, 2004, 23, 2989-3012.	1.6	17
133	Optimising newspaper sales using neural-Bayesian technology. Neural Computing and Applications, 2003, 12, 212-219.	5.6	4
134	Clustering ensembles of neural network models. Neural Networks, 2003, 16, 261-269.	5.9	108
135	Hierarchical visualization of time-series data using switching linear dynamical systems. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 1202-1214.	13.9	9
136	Automatic Categorization of Web Pages and User Clustering with Mixtures of Hidden Markov Models. Lecture Notes in Computer Science, 2003, , 35-49.	1.3	27
137	Multi-scale Switching Linear Dynamical Systems. Lecture Notes in Computer Science, 2003, , 562-569.	1.3	0
138	Approximate algorithms for neural-Bayesian approaches. Theoretical Computer Science, 2002, 287, 219-238.	0.9	0
139	Model Clustering for Neural Network Ensembles. Lecture Notes in Computer Science, 2002, , 383-388.	1.3	0
140	Self-organizing maps, vector quantization, and mixture modeling. IEEE Transactions on Neural Networks, 2001, 12, 1299-1305.	4.2	132
141	Input selection based on an ensemble. Neurocomputing, 2000, 34, 227-238.	5.9	12
142	10.1162/153244304322765658. Applied Physics Letters, 2000, 1, .	3.3	121
143	The Use of Being Stubborn and Introspective. Studies in Cognitive Systems, 2000, , 1184-1200.	0.1	5
144	On â€œNaturalâ€•Learning and Pruning in Multilayered Perceptrons. Neural Computation, 2000, 12, 881-901.	2.2	26

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145	PREDICTION OF BLADDER OUTLET OBSTRUCTION IN MEN WITH LOWER URINARY TRACT SYMPTOMS USING ARTIFICIAL NEURAL NETWORKS. Journal of Urology, 2000, 163, 300-305.	0.4	35
146	Survival Analysis: A Neural-Bayesian Approach. Perspectives in Neural Computing, 2000, , 162-167.	0.1	0
147	On-line Learning with Time-Correlated Examples. , 1999, , 251-278.		0
148	Pruning Using Parameter and Neuronal Metrics. Neural Computation, 1999, 11, 977-993.	2.2	21
149	PARTIAL RETRAINING: A NEW APPROACH TO INPUT RELEVANCE DETERMINATION. International Journal of Neural Systems, 1999, 09, 75-85.	5.2	26
150	Energy functions for self-organizing maps. , 1999, , 303-315.		116
151	Bias/Variance Decompositions for Likelihood-Based Estimators. Neural Computation, 1998, 10, 1425-1433.	2.2	66
152	Learning in two-layered networks with correlated examples. Journal of Physics A, 1997, 30, 4983-4992.	1.6	4
153	Input selection with partial retraining. Lecture Notes in Computer Science, 1997, , 469-474.	1.3	1
154	Task-Dependent Learning of Attention. Neural Networks, 1997, 10, 981-992.	5.9	64
155	Transition times in self-organizing maps. Biological Cybernetics, 1996, 75, 49-57.	1.3	8
156	A theoretical comparison of batch-mode, on-line, cyclic, and almost-cyclic learning. IEEE Transactions on Neural Networks, 1996, 7, 919-925.	4.2	63
157	How Dependencies between Successive Examples Affect On-Line Learning. Neural Computation, 1996, 8, 1743-1765.	2.2	11
158	Transition times in self-organizing maps. Biological Cybernetics, 1996, 75, 49-57.	1.3	0
159	Scaling properties of on-line learning with momentum. , 1994, , .		0
160	On Fokker-Planck approximations of on-line learning processes. Journal of Physics A, 1994, 27, 5145-5160.	1.6	21
161	On-Line Learning with Time-Correlated Patterns. Europhysics Letters, 1994, 28, 451-455.	2.0	5
162	Stochastic dynamics of learning with momentum in neural networks. Journal of Physics A, 1994, 27, 4425-4437.	1.6	19

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163	Cooling schedules for learning in neural networks. Physical Review E, 1993, 47, 4457-4464.	2.1	12
164	On-line learning processes in artificial neural networks. North-Holland Mathematical Library, 1993, 51, 199-233.	0.1	40
165	Guaranteed Convergence of Learning in Neural Networks. , 1993, , 533-538.		0
166	Learning-parameter adjustment in neural networks. Physical Review A, 1992, 45, 8885-8893.	2.5	15
167	Learning in neural networks with local minima. Physical Review A, 1992, 46, 5221-5231.	2.5	27
168	Retrieval of pattern sequences at variable speeds in a neural network with delays. Neural Networks, 1992, 5, 145-152.	5.9	23
169	Learning processes in neural networks. Physical Review A, 1991, 44, 2718-2726.	2.5	82
170	Error potentials for self-organization. , 0, , .		17
171	Iterated extended Kalman smoothing with expectation-propagation. , 0, , .		2
172	Expectation propagation and generalised EP methods for inference in switching linear dynamical systems. , 0, , 141-165.		0
173	Convexity Arguments for Efficient Minimization of the Bethe and Kikuchi Free Energies. Journal of Artificial Intelligence Research, 0, 26, 153-190.	7.0	23
174	Properties of Bethe Free Energies and Message Passing in Gaussian Models. Journal of Artificial Intelligence Research, 0, 41, 1-24.	7.0	6
175	Speaker diarization using gesture and speech. , 0, , .		2