Noboru Murata

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4434862/publications.pdf

Version: 2024-02-01

394286 206029 2,657 118 19 48 citations h-index g-index papers 121 121 121 2136 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Detecting cell assemblies by NMF-based clustering from calcium imaging data. Neural Networks, 2022, 149, 29-39.	3.3	7
2	Topology optimization in magnetic shield design by using density method in combination with CNN. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2022, 41, 2109.	0.5	2
3	Designing Comprehensive Cyber Threat Analysis Platform: Can We Orchestrate Analysis Engines?. , 2021, , .		14
4	Fast Multi-Objective Optimization of Magnetic Shield Shape by Combining Auto-Encoder and Level-Set Method. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	6
5	Fast and robust multiplane single-molecule localization microscopy using a deep neural network. Neurocomputing, 2021, 451, 279-289.	3.5	1
6	Multi-label Positive and Unlabeled Learning and its Application to Common Vulnerabilities and Exposure Categorization. , 2021 , , .		0
7	Automation of Vulnerability Classification from its Description using Machine Learning. , 2020, , .		27
8	CAFM: A 3D Morphable Model for Animals. , 2020, , .		2
9	Single-molecule localization by voxel-wise regression using convolutional neural network. Results in Optics, 2020, 1, 100019.	0.9	0
10	Information geometry of modal linear regression. Information Geometry, 2019, 2, 43-75.	0.8	4
11	Design Optimization of Magnetic Material Distribution by Using Encoder-Decoder with Additive Mixing for Design Conditions. , 2019, , .		0
12	Application of Conditional Variational Auto-Encoder to Magnetic Circuit Design with Magnetic Field Computation. , $2019, $, .		1
13	Development of Encoder-Decoder Predicting Search Process of Level-set Method in Magnetic Circuit Design. , 2019, , .		1
14	Retrieved Image Refinement by Bootstrap Outlier Test. Lecture Notes in Computer Science, 2019, , 505-517.	1.0	1
15	Sleep State Analysis Using Calcium Imaging Data by Non-negative Matrix Factorization. Lecture Notes in Computer Science, 2019, , 102-113.	1.0	3
16	Real-time botnet detection using nonnegative tucker decomposition. , 2019, , .		5
17	Learning Scale and Shift-Invariant Dictionary for Sparse Representation. Lecture Notes in Computer Science, 2019, , 472-483.	1.0	O
18	On a Convergence Property of a Geometrical Algorithm for Statistical Manifolds. Communications in Computer and Information Science, 2019, , 262-272.	0.4	3

#	Article	IF	CITATIONS
19	Distributed Energy Management for Comprehensive Utilization of Residential Photovoltaic Outputs. IEEE Transactions on Smart Grid, 2018, 9, 1216-1227.	6.2	44
20	Localizing Current Dipoles from EEG Data Using a Birth–Death Process. , 2018, , .		0
21	Temporal Interpolation of Gridded Solar Radiation Data for Evaluation of PV Fluctuations. Energy Procedia, 2018, 155, 259-268.	1.8	5
22	Information Geometric Perspective of Modal Linear Regression. Lecture Notes in Computer Science, 2018, , 535-545.	1.0	2
23	Estimation of neural connections from partially observed neural spikes. Neural Networks, 2018, 108, 172-191.	3.3	3
24	EEG dipole source localization with information criteria for multiple particle filters. Neural Networks, 2018, 108, 68-82.	3.3	4
25	Geometrical Formulation of the Nonnegative Matrix Factorization. Lecture Notes in Computer Science, 2018, , 525-534.	1.0	2
26	Neural network with unbounded activation functions is universal approximator. Applied and Computational Harmonic Analysis, 2017, 43, 233-268.	1.1	154
27	Double sparsity for multi-frame super resolution. Neurocomputing, 2017, 240, 115-126.	3.5	16
28	Local Intrinsic Dimension Estimation by Generalized Linear Modeling. Neural Computation, 2017, 29, 1838-1878.	1.3	2
29	Time-Varying Transition Probability Matrix Estimation and Its Application to Brand Share Analysis. PLoS ONE, 2017, 12, e0169981.	1.1	6
30	Change-point detection in a sequence of bags-of-data. , 2016, , .		0
31	Reproducing Statistical Property of Short-term Fluctuation in Wind Power Profiles. Energy Procedia, 2016, 99, 130-136.	1.8	1
32	MDL Criterion for NMF with Application to Botnet Detection. Lecture Notes in Computer Science, 2016, , 570-578.	1.0	1
33	Nonparametric <i>e</i> -Mixture Estimation. Neural Computation, 2016, 28, 2687-2725.	1.3	9
34	Doubly sparse structure in image super resolution. , 2016, , .		2
35	Graph structure modeling for multi-neuronal spike data. Journal of Physics: Conference Series, 2016, 699, 012012.	0.3	0
36	Optical detection of neuron connectivity by random access two-photon microscopy. Journal of Neuroscience Methods, 2016, 263, 48-56.	1.3	8

3

#	Article	IF	Citations
37	Matrix Factorization for Image Processing. SpringerBriefs in Statistics, 2016, , 73-92.	0.3	О
38	Non-parametric e-mixture of Density Functions. Lecture Notes in Computer Science, 2016, , 3-10.	1.0	1
39	An Entropy Estimator Based on Polynomial Regression with Poisson Error Structure. Lecture Notes in Computer Science, 2016, , 11-19.	1.0	1
40	Analytical estimation of the convergence point of populations. , 2015, , .		15
41	Non-parametric entropy estimators based on simple linear regression. Computational Statistics and Data Analysis, 2015, 89, 72-84.	0.7	9
42	Multi-frame image super resolution based on sparse coding. Neural Networks, 2015, 66, 64-78.	3.3	34
43	Change-Point Detection in a Sequence of Bags-of-Data. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2632-2644.	4.0	2
44	mmpp: A Package for Calculating Similarity and Distance Metrics for Simple and Marked Temporal Point Processes. R Journal, 2015, 7, 237.	0.7	7
45	ICOPE-15-1025 Effects of a MIP start for solving weekly operational planning problem of a residential energy system. The Proceedings of the International Conference on Power Engineering (ICOPE), 2015, 2015.12, _ICOPE-15	0.0	0
46	Patchworking Multiple Pairwise Distances for Learning with Distance Matrices. Lecture Notes in Computer Science, 2015, , 287-294.	1.0	0
47	Intrinsic Graph Structure Estimation Using Graph Laplacian. Neural Computation, 2014, 26, 1455-1483.	1.3	4
48	Gray-box modeling for prediction and control of molten steel temperature in tundish. Journal of Process Control, 2014, 24, 375-382.	1.7	40
49	A Nonparametric Clustering Algorithm with a Quantile-Based Likelihood Estimator. Neural Computation, 2014, 26, 2074-2101.	1.3	3
50	Prediction of Molten Steel Temperature in Steel Making Process with Uncertainty by Integrating Gray-Box Model and Bootstrap Filter. Journal of Chemical Engineering of Japan, 2014, 47, 827-834.	0.3	13
51	Sampling Hidden Parameters from Oracle Distribution. Lecture Notes in Computer Science, 2014, , 539-546.	1.0	0
52	An Algorithm for Directed Graph Estimation. Lecture Notes in Computer Science, 2014, , 145-152.	1.0	0
53	A Versatile Clustering Method for Electricity Consumption Pattern Analysis in Households. IEEE Transactions on Smart Grid, 2013, 4, 1048-1057.	6.2	56
54	Information estimators for weighted observations. Neural Networks, 2013, 46, 260-275.	3.3	11

#	Article	IF	Citations
55	Entropy-based sliced inverse regression. Computational Statistics and Data Analysis, 2013, 67, 105-114.	0.7	5
56	Learning Ancestral Atom via Sparse Coding. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 586-594.	7. 3	3
57	A Comparison of Optimal Operation of a Residential Fuel Cell Co-Generation System Using Clustered Demand Patterns Based on Kullback-Leibler Divergence. Energies, 2013, 6, 374-399.	1.6	9
58	Regions of Unusually High Flexibility Occur Frequently in Human Genomic DNA. Bioscience, Biotechnology and Biochemistry, 2013, 77, 612-617.	0.6	1
59	Design of Inner and Outer Gray-Box Models to Predict Molten Steel Temperature in Tundish. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 744-749.	0.4	4
60	High-Performance Prediction of Molten Steel Temperature in Tundish through Gray-Box Model. ISIJ International, 2013, 53, 76-80.	0.6	14
61	Pairwise Similarity for Line Extraction from Distorted Images. Lecture Notes in Computer Science, 2013, , 250-257.	1.0	0
62	A Tree Search Approach to Sparse Coding. Lecture Notes in Computer Science, 2012, , 472-477.	1.0	0
63	Multiple Kernel Learning with Gaussianity Measures. Neural Computation, 2012, 24, 1853-1881.	1.3	5
64	Sensitivity Analysis for Controlling Molten Steel Temperature in Tundish* *This study has been partially supported by the grant from ISIJ as an activity of research group, "High Precision Process Control via Large Scale Database and Simulation Models'' IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 270-271.	0.4	2
65	Gray-Box Model to Control Molten Steel Temperature in Tundish. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 268-269.	0.4	4
66	A generalisation of independence in statistical models for categorical distribution. International Journal of Data Mining, Modelling and Management, 2012, 4, 172.	0.1	5
67	Automatic extraction of basic electricity consumption patterns in household., 2012,,.		1
68	A Statistical Model for Predicting the Liquid Steel Temperature in Ladle and Tundish by Bootstrap Filter. ISIJ International, 2012, 52, 1086-1091.	0.6	19
69	Nonnegative Matrix Factorization via Generalized Product Rule and Its Application for Classification. Lecture Notes in Computer Science, 2012, , 263-271.	1.0	0
70	Robust Hypersurface Fitting Based on Random Sampling Approximations. Lecture Notes in Computer Science, 2012, , 520-527.	1.0	1
71	Calibration of radially symmetric distortion based on linearity in the calibrated image. , $2011, , .$		0
72	An Estimation of Generalized Bradley-Terry Models Based on the <i>em</i> Algorithm. Neural Computation, 2011, 23, 1623-1659.	1.3	4

#	Article	IF	Citations
73	A Measure of Credibility of Solar Power Prediction. , 2011, , .		O
74	Extraction of Basic Patterns of Household Energy Consumption. , 2011, , .		O
75	Improved methods for dewarping images in convex mirrors in fine art: applications to van Eyck and Parmigianino. , $2011,\ldots$		2
76	Speaker recognition using multiple kernel learning based on conditional entropy minimization. , 2011, , .		2
77	A Computationally Efficient Information Estimator for Weighted Data. Lecture Notes in Computer Science, 2011, , 301-308.	1.0	3
78	Robust Hyperplane Fitting Based on k-th Power Deviation and \hat{l}_{\pm} -Quantile. Lecture Notes in Computer Science, 2011, , 278-285.	1.0	1
79	Stochastic simulation of biological reactions, and its applications for studying actin polymerization. Physical Biology, 2010, 7, 046010.	0.8	6
80	Self-Calibration of Radially Symmetric Distortion by Model Selection. , 2010, , .		4
81	A Grouped Ranking Model for Item Preference Parameter. Neural Computation, 2010, 22, 2417-2451.	1.3	4
82	A Conditional Entropy Minimization Criterion for Dimensionality Reduction and Multiple Kernel Learning. Neural Computation, 2010, 22, 2887-2923.	1.3	17
83	Multiple Kernel Learning by Conditional Entropy Minimization. , 2010, , .		5
84	Estimation of a rotationally symmetric mirror shape from a frontal image of the mirror. , 2010, , .		0
85	A Generalization of Independence in Naive Bayes Model. Lecture Notes in Computer Science, 2010, , 153-161.	1.0	8
86	Item Preference Parameters from Grouped Ranking Observations. Lecture Notes in Computer Science, 2009, , 875-882.	1.0	2
87	An Information Theoretic Perspective of the Sparse Coding. Lecture Notes in Computer Science, 2009, , 84-93.	1.0	2
88	Model Selection and Information Criterion. , 2009, , 333-354.		2
89	Neuromagnetic responses to chords are modified by preceding musical scale. Neuroscience Research, 2008, 60, 50-55.	1.0	5
90	Robust Boosting Algorithm Against Mislabeling in Multiclass Problems. Neural Computation, 2008, 20, 1596-1630.	1.3	19

#	Article	IF	CITATIONS
91	Robust Loss Functions for Boosting. Neural Computation, 2007, 19, 2183-2244.	1.3	43
92	A modified EM algorithm for mixture models based on Bregman divergence. Annals of the Institute of Statistical Mathematics, 2007, 59, 3-25.	0.5	12
93	Part 6: Geometrical Structure of Boosting Algorithm. New Generation Computing, 2006, 25, 117-141.	2.5	1
94	Robust Estimation for Mixture of Probability Tables based on \hat{I}^2 -likelihood. , 2006, , .		1
95	Geometrical Properties of Nu Support Vector Machines with Different Norms. Neural Computation, 2005, 17, 2508-2529.	1.3	17
96	A Gaussian Process Robust Regression. Progress of Theoretical Physics Supplement, 2005, 157, 280-283.	0.2	0
97	Nonlinear PCA/ICA for the Structure from Motion Problem. Lecture Notes in Computer Science, 2004, , 750-757.	1.0	0
98	The Most Robust Loss Function for Boosting. Lecture Notes in Computer Science, 2004, , 496-501.	1.0	13
99	Improving Generalization Performance of Natural Gradient Learning Using Optimized Regularization by NIC. Neural Computation, 2004, 16, 355-382.	1.3	16
100	Information Geometry of U-Boost and Bregman Divergence. Neural Computation, 2004, 16, 1437-1481.	1.3	139
101	A robust approach to independent component analysis of signals with high-level noise measurements. IEEE Transactions on Neural Networks, 2003, 14, 631-645.	4.8	52
102	Independent component analysis for unaveraged single-trial MEG data decomposition and single-dipole source localization. Neurocomputing, 2002, 49, 255-277.	3.5	40
103	On-line learning in changing environments with applications in supervised and unsupervised learning. Neural Networks, 2002, 15, 743-760.	3.3	48
104	Support vector machines with different norms: motivation, formulations and results. Pattern Recognition Letters, 2001, 22, 1263-1272.	2.6	33
105	Multiplicative nonholonomic/Newton-like algorithm. Chaos, Solitons and Fractals, 2001, 12, 785-793.	2.5	8
106	Sequential Extraction of Minor Components. Neural Processing Letters, 2001, 13, 195-201.	2.0	19
107	An approach to blind source separation based on temporal structure of speech signals. Neurocomputing, 2001, 41, 1-24.	3.5	502
108	A Statistical Study of On-line Learning. , 1999, , 63-92.		11

#	Article	lF	CITATIONS
109	Statistical analysis of learning dynamics. Signal Processing, 1999, 74, 3-28.	2.1	22
110	Statistical inference: learning in artificial neural networks. Trends in Cognitive Sciences, 1998, 2, 4-10.	4.0	8
111	Statistical analysis of regularization constant â€" From Bayes, MDL and NIC points of view. Lecture Notes in Computer Science, 1997, , 284-293.	1.0	2
112	Asymptotic statistical theory of overtraining and cross-validation. IEEE Transactions on Neural Networks, 1997, 8, 985-996.	4.8	274
113	An Integral Representation of Functions Using Three-layered Networks and Their Approximation Bounds. Neural Networks, 1996, 9, 947-956.	3.3	34
114	Approximation bounds of three-layered neural networksâ€"a theorem on an integral transform with ridge functions. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 1996, 79, 23-33.	0.1	2
115	A Numerical Study on Learning Curves in Stochastic Multilayer Feedforward Networks. Neural Computation, 1996, 8, 1085-1106.	1.3	51
116	Network information criterion-determining the number of hidden units for an artificial neural network model. IEEE Transactions on Neural Networks, 1994, 5, 865-872.	4.8	499
117	Statistical Theory of Learning Curves under Entropic Loss Criterion. Neural Computation, 1993, 5, 140-153.	1.3	113
118	Effects of Norms on Learning Properties of Support Vector Machines. , 0, , .		0