Shotaro Akaho

List of Publications by Year
in descending order

85 papers	1,020 citations	840119 11 h-index	525886 27 g-index
89 all docs	89 docs citations	89 times ranked	741 citing authors

#	Article	IF	Citations
1	Fairness-Aware Classifier with Prejudice Remover Regularizer. Lecture Notes in Computer Science, 2012, , 35-50.	1.0	325
2	Learning algorithms utilizing quasi-geodesic flows on the Stiefel manifold. Neurocomputing, 2005, 67, 106-135.	3.5	119
3	TrBagg: A Simple Transfer Learning Method and its Application to Personalization in Collaborative Tagging. , 2009, , .		58
4	Nonmonotonic Generalization Bias of Gaussian Mixture Models. Neural Computation, 2000, 12, 1411-1427.	1.3	36
5	A Survey and Empirical Comparison of Object Ranking Methods. , 2010, , 181-201.		28
6	10.1162/153244304322765649. Applied Physics Letters, 2000, 1, .	1.5	26
7	Asymptotic Properties of the Fisher Kernel. Neural Computation, 2004, 16, 115-137.	1.3	25
8	Efficient Clustering for Orders. Studies in Computational Intelligence, 2009, , 261-279.	0.7	20
9	Conditionally independent component analysis for supervised feature extraction. Neurocomputing, 2002, 49, 139-150.	3.5	16
10	Epipolar Geometry Via Rectification of Spherical Images. , 2007, , 461-471.		16
11	Variational Bayesian Mixture Model on a Subspace of Exponential Family Distributions. IEEE Transactions on Neural Networks, 2009, 20, 1783-1796.	4.8	14
12	Progressive evolution of whole–rock composition during metamorphism revealed by multivariate statistical analyses. Journal of Metamorphic Geology, 2018, 36, 41-54.	1.6	14
13	Model-Based Approaches for Independence-Enhanced Recommendation. , 2016, , .		13
14	Spectrum adapted expectation-maximization algorithm for high-throughput peak shift analysis. Science and Technology of Advanced Materials, 2019, 20, 733-745.	2.8	13
15	Supervised Ordering — An Empirical Survey. , 0, , .		12
16	Model-based and actual independence for fairness-aware classification. Data Mining and Knowledge Discovery, 2018, 32, 258-286.	2.4	12
17	Considerations on Fairness-Aware Data Mining. , 2012, , .		11
18	The Independence of Fairness-Aware Classifiers. , 2013, , .		11

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19	Knowledge worker intranet behaviour and usability. International Journal of Business Intelligence and Data Mining, 2007, 2, 447.	0.2	10
20	Natural Conjugate Gradient on Complex Flag Manifolds for Complex Independent Subspace Analysis. Lecture Notes in Computer Science, 2008, , 165-174.	1.0	10
21	Thermodynamic modeling of hydrous-meltâ€"olivine equilibrium using exhaustive variable selection. Physics of the Earth and Planetary Interiors, 2020, 300, 106430.	0.7	10
22	Learning from Cluster Examples-Employing Attributes of Clusters.. Transactions of the Japanese Society for Artificial Intelligence, 2003, 18, 86-95.	0.1	10
23	Nonparametric <i>e</i>-Mixture Estimation. Neural Computation, 2016, 28, 2687-2725.	1.3	9
24	Sparse isocon analysis: A data-driven approach for material transfer estimation. Chemical Geology, 2020, 532, 119345.	1.4	9
25	Efficient Clustering for Orders. , 2006, , .		8
26	Supervised ordering by regression combined with Thurstoneâ€™s model. Artificial Intelligence Review, 2006, 25, 231-246.	9.7	8
27	Gaussian Process Regression with Measurement Error. IEICE Transactions on Information and Systems, 2010, E93-D, 2680-2689.	0.4	8
28	Learning from order examples. , 0, , .		7
29	The e-PCA and m-PCA: dimension reduction of parameters by information geometry. , 0, , .		7
30	Dimension Reduction for Supervised Ordering. IEEE International Conference on Data Mining, 2006, , .	0.0	7
31	Flag Manifolds for Subspace ICA Problems. , 2007, , .		7
32	Detecting cell assemblies by NMF-based clustering from calcium imaging data. Neural Networks, 2022, 149, 29-39.	3.3	7
33	Time-Varying Transition Probability Matrix Estimation and Its Application to Brand Share Analysis. PLoS ONE, 2017, 12, e0169981.	1.1	6
34	An efficient sampling algorithm with adaptations for Bayesian variable selection. Neural Networks, 2015, 61, 22-31.	3.3	5
35	Principal Component Analysis for Gaussian Process Posteriors. Neural Computation, 2022, 34, 1189-1219.	1.3	5
36	Curve fitting that minimizes the mean square of perpendicular distances from sample points. , 1993, , .		4

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37	Filling-in Missing Objects in Orders. , 0, , .		4
38	Visualization of multi-neuron activity by simultaneous optimization of clustering and dimension reduction. Neural Networks, 2010, 23, 743-751.	3.3	4
39	Intrinsic Graph Structure Estimation Using Graph Laplacian. Neural Computation, 2014, 26, 1455-1483.	1.3	4
40	Information geometry of modal linear regression. Information Geometry, 2019, 2, 43-75.	0.8	4
41	Spectrum adapted expectation-conditional maximization algorithm for extending high–throughput peak separation method in XPS analysis. Science and Technology of Advanced Materials Methods, 2021, 1, 45-55.	0.4	4
42	Pathological Spectra of the Fisher Information Metric and Its Variants in Deep Neural Networks. Neural Computation, 2021, 33, 2274-2307.	1.3	4
43	Gaze prediction for first-person videos based on inverse non-negative sparse coding with determinant sparse measure. Journal of Visual Communication and Image Representation, 2021, 81, 103367.	1.7	4
44	Riemannian Optimization Method on Generalized Flag Manifolds for Complex and Subspace ICA. AIP Conference Proceedings, 2006, , .	0.3	3
45	Navigation Space Based Intranet Usability Analysis. , 2007, , .		3
46	Estimation of neural connections from partially observed neural spikes. Neural Networks, 2018, 108, 172-191.	3.3	3
47	Sleep State Analysis Using Calcium Imaging Data by Non-negative Matrix Factorization. Lecture Notes in Computer Science, 2019, , 102-113.	1.0	3
48	On a Convergence Property of a Geometrical Algorithm for Statistical Manifolds. Communications in Computer and Information Science, 2019, , 262-272.	0.4	3
49	Dimension Reduction for Mixtures of Exponential Families. Lecture Notes in Computer Science, 2008, , 1-10.	1.0	2
50	Curve fitting by Spherical Least Squares on two-dimensional sphere. , 2009, , .		2
51	Improved methods for dewarping images in convex mirrors in fine art: applications to van Eyck and Parmigianino. , 2011, , .		2
52	Automatic Categorization of Health Indices for Risk Quantification. Procedia Computer Science, 2015, 63, 325-331.	1.2	2
53	Local Intrinsic Dimension Estimation by Generalized Linear Modeling. Neural Computation, 2017, 29, 1838-1878.	1.3	2
54	Information Geometric Perspective of Modal Linear Regression. Lecture Notes in Computer Science, 2018, , 535-545.	1.0	2

#	ARTICLE	IF	CITATIONS
55	Hypersurface Fitting via Jacobian Nonlinear PCA on Riemannian Space. Lecture Notes in Computer Science, 2011, , 236-243.	1.0	2
56	Geometrical Formulation of the Nonnegative Matrix Factorization. Lecture Notes in Computer Science, 2018, , 525-534.	1.0	2
57	Multimodal independent component analysis?A method of feature extraction from multiple information sources. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 2001, 84, 21-28.	0.1	1
58	SVM that maximizes the margin in the input space. Systems and Computers in Japan, 2004, 35, 78-86.	0.2	1
59	Nano-scale Surface and Interface Analysis Using X-ray Spectromicroscopy Assisted by Measurement Informatics. Vacuum and Surface Science, 2021, 64, 382-389.	0.0	1
60	Behaviorally Founded Recommendation Algorithm for Browsing Assistance Systems. Annals of Information Systems, 2010, , 317-334.	0.5	1
61	Retrieved Image Refinement by Bootstrap Outlier Test. Lecture Notes in Computer Science, 2019, , 505-517.	1.0	1
62	Enterprise Web Services and Elements of Human Interactions. Lecture Notes in Business Information Processing, 2008, , 263-272.	0.8	1
63	Simultaneous Clustering and Dimensionality Reduction Using Variational Bayesian Mixture Model. Studies in Classification, Data Analysis, and Knowledge Organization, 2010, , 81-89.	0.1	1
64	Conditionally Independent Component Extraction for Naive Bayes Inference. Lecture Notes in Computer Science, 2001, , 535-540.	1.0	1
65	Browsing Assistance Service for Intranet Information Systems. Lecture Notes in Computer Science, 2008, , 256-267.	1.0	1
66	Analytics and Management of Collaborative Intranets. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 623-631.	0.2	1
67	Robust Hyperplane Fitting Based on k-th Power Deviation and Î±-Quantile. Lecture Notes in Computer Science, 2011, , 278-285.	1.0	1
68	Robust Hypersurface Fitting Based on Random Sampling Approximations. Lecture Notes in Computer Science, 2012, , 520-527.	1.0	1
69	Flexible Hypersurface Fitting with RBF Kernels. Lecture Notes in Computer Science, 2013, , 286-293.	1.0	1
70	Non-parametric e-mixture of Density Functions. Lecture Notes in Computer Science, 2016, , 3-10.	1.0	1
71	An Entropy Estimator Based on Polynomial Regression with Poisson Error Structure. Lecture Notes in Computer Science, 2016, , 11-19.	1.0	1
72	Usability Analysis Framework Based on Behavioral Segmentation. Lecture Notes in Computer Science, 2007, , 35-45.	1.0	1

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73	Nonlinear PCA/ICA for the Structure from Motion Problem. Lecture Notes in Computer Science, 2004, , 750-757.	1.0	0
74	Active Learning for Network Estimation. , 2007, , .		0
75	Intranet Browsing Behavior Analysis and Efficient Support System. , 2007, , .		0
76	Web Behaviormetric User Profiling Concept. Lecture Notes in Computer Science, 2008, , 134-143.	1.0	0
77	Calibration of radially symmetric distortion based on linearity in the calibrated image. , 2011, , .		0
78	Global convergence of independent component analysis based on semidefinite programming relaxation. , 2011, , .		0
79	Graph structure modeling for multi-neuronal spike data. Journal of Physics: Conference Series, 2016, 699, 012012.	0.3	0
80	Human–Web Interactions. Advanced Information and Knowledge Processing, 2010, , 199-232.	0.2	0
81	Dimension Reduction for Object Ranking. , 2010, , 203-215.		0
82	Pairwise Similarity for Line Extraction from Distorted Images. Lecture Notes in Computer Science, 2013, , 250-257.	1.0	0
83	Long Tails and Analysis of Knowledge Worker Intranet Browsing Behavior. , 2007, , 584-597.		0
84	Human-Centric Design of Percipient Knowledge Distribution Service. Lecture Notes in Computer Science, 2008, , 31-40.	1.0	0
85	Full-Span Log-Linear Model and Fast Learning Algorithm. Neural Computation, 2022, 34, 1-27.	1.3	0