Shinto Eguchi

List of Publications by Year
in descending order

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111 papers	2,234 citations	201385 27 h-index	243296 44 g-index
116 all docs	116 docs citations	116 times ranked	1409 citing authors

#	Article	IF	Citations
1	Robust parameter estimation with a small bias against heavy contamination. Journal of Multivariate Analysis, 2008, 99, 2053-2081.	0.5	176
2	Information Geometry of U-Boost and Bregman Divergence. Neural Computation, 2004, 16, 1437-1481.	1.3	139
3	Robust Blind Source Separation by Beta Divergence. Neural Computation, 2002, 14, 1859-1886.	1.3	129
4	Interpreting Kullbackâ€“Leibler divergence with the Neymanâ€“Pearson lemma. Journal of Multivariate Analysis, 2006, 97, 2034-2040.	0.5	121
5	Second Order Efficiency of Minimum Contrast Estimators in a Curved Exponential Family. Annals of Statistics, 1983, 11, 793.	1.4	97
6	Geometry of minimum contrast. Hiroshima Mathematical Journal, 1992, 22, .	0.1	80
7	A class of logistic-type discriminant functions. Biometrika, 2002, 89, 1-22.	1.3	73
8	Local sensitivity approximations for selectivity bias. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2001, 63, 871-895.	1.1	64
9	Robust estimation in the normal mixture model. Journal of Statistical Planning and Inference, 2006, 136, 3989-4011.	0.4	63
10	A paradox concerning nuisance parameters and projected estimating functions. Biometrika, 2004, 91, 929-941.	1.3	62
11	Robustifying AdaBoost by Adding the Naive Error Rate. Neural Computation, 2004, 16, 767-787.	1.3	56
12	A boosting method for maximizing the partial area under the ROC curve. BMC Bioinformatics, 2010, 11, 314.	1.2	48
13	A differential geometric approach to statistical inference on the basis of contrast functionals. Hiroshima Mathematical Journal, 1985, 15, .	0.1	47
14	Robust Kernel Principal Component Analysis. Neural Computation, 2009, 21, 3179-3213.	1.3	46
15	A class of local likelihood methods and near-parametric asymptotics. Journal of the Royal Statistical Society Series B: Statistical Methodology, 1998, 60, 709-724.	1.1	45
16	Robust Loss Functions for Boosting. Neural Computation, 2007, 19, 2183-2244.	1.3	43
17	Identification of biomarkers from mass spectrometry data using a "common" peak approach. BMC Bioinformatics, 2006, 7, 358.	1.2	40
18	Robust Prewhitening for ICA by Minimizing Î²-Divergence and Its Application to FastICA. Neural Processing Letters, 2007, 25, 91-110.	2.0	37

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19	Entropy and Divergence Associated with Power Function and the Statistical Application. Entropy, 2010, 12, 262-274.	1.1	36
20	Risk assessment of radioisotope contamination for aquatic living resources in and around Japan. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3838-3843.	3.3	35
21	Local model uncertainty and incomplete-data bias (with discussion). Journal of the Royal Statistical Society Series B: Statistical Methodology, 2005, 67, 459-513.	1.1	34
22	Exploring Latent Structure of Mixture ICA Models by the Minimum Î²-Divergence Method. Neural Computation, 2006, 18, 166-190.	1.3	33
23	Robust extraction of local structures by the minimum -divergence method. Neural Networks, 2010, 23, 226-238.	3.3	33
24	A class of tests for a general covariance structure. Journal of Multivariate Analysis, 1990, 32, 313-325.	0.5	32
25	An asymmetric logistic regression model for ecological data. Methods in Ecology and Evolution, 2016, 7, 249-260.	2.2	31
26	Spontaneous Clustering via Minimum Gamma-Divergence. Neural Computation, 2014, 26, 421-448.	1.3	30
27	Diurnal Transcriptome and Gene Network Represented through Sparse Modeling in Brachypodium distachyon. Frontiers in Plant Science, 2017, 8, 2055.	1.7	29
28	An introduction to the predictive technique AdaBoost with a comparison to generalized additive models. Fisheries Research, 2005, 76, 328-343.	0.9	28
29	Supervised image classification by contextual AdaBoost based on posteriors in neighborhoods. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 2547-2554.	2.7	27
30	Projective Power Entropy and Maximum Tsallis Entropy Distributions. Entropy, 2011, 13, 1746-1764.	1.1	27
31	Confidence Intervals and P-Values for Meta-Analysis with Publication Bias. Biometrics, 2007, 63, 475-482.	0.8	26
32	Genotyping of single nucleotide polymorphism using model-based clustering. Bioinformatics, 2004, 20, 718-726.	1.8	24
33	Target-based catch-per-unit-effort standardization in multispecies fisheries. Canadian Journal of Fisheries and Aquatic Sciences, 2018, 75, 452-463.	0.7	24
34	Modeling Late Entry Bias in Survival Analysis. Biometrics, 2005, 61, 559-566.	0.8	22
35	The powerâ€integrated discriminant improvement: An accurate measure of the incremental predictive value of additional biomarkers. Statistics in Medicine, 2019, 38, 2589-2604.	0.8	21
36	Sampling bias correction in species distribution models by quasi-linear Poisson point process. Ecological Informatics, 2020, 55, 101015.	2.3	20

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37	Robust Boosting Algorithm Against Mislabeling in Multiclass Problems. Neural Computation, 2008, 20, 1596-1630.	1.3	19
38	Duality of Maximum Entropy and Minimum Divergence. Entropy, 2014, 16, 3552-3572.	1.1	19
39	An Extension of the Receiver Operating Characteristic Curve and AUC-Optimal Classification. Neural Computation, 2012, 24, 2789-2824.	1.3	17
40	Robust estimation of location and concentration parameters for the von Misesâ€“Fisher distribution. Statistical Papers, 2016, 57, 205-234.	0.7	15
41	The Influence Function of Principal Component Analysis by Self-Organizing Rule. Neural Computation, 1998, 10, 1435-1444.	1.3	14
42	Local likelihood method: a bridge over parametric and nonparametric regression. Journal of Nonparametric Statistics, 2003, 15, 665-683.	0.4	13
43	The Most Robust Loss Function for Boosting. Lecture Notes in Computer Science, 2004, , 496-501.	1.0	13
44	Image classification based on Markov random field models with Jeffreys divergence. Journal of Multivariate Analysis, 2006, 97, 1997-2008.	0.5	13
45	Robust Independent Component Analysis via Minimum $gamma $-Divergence Estimation. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 614-624.	7.3	10
46	A characterization of second order efficiency in a curved exponential family. Annals of the Institute of Statistical Mathematics, 1984, 36, 199-206.	0.5	9
47	A Class of Robust Principal Component Vectors. Journal of Multivariate Analysis, 2001, 77, 239-269.	0.5	9
48	Quasi-linear score for capturing heterogeneous structure in biomarkers. BMC Bioinformatics, 2017, 18, 308.	1.2	9
49	Information Divergence Geometry and the Application to Statistical Machine Learning. , 2009, , 309-332.		9
50	Path Connectedness on a Space of Probability Density Functions. Lecture Notes in Computer Science, 2015, , 615-624.	1.0	9
51	Area under the curve maximization method in credit scoring. Journal of Risk Model Validation, 2010, 4, 3-25.	0.1	9
52	A comparison of methods for estimating individual pharmacokinetic parameters. Journal of Pharmacokinetics and Pharmacodynamics, 1999, 27, 103-121.	0.6	8
53	Boosting Method for Local Learning in Statistical Pattern Recognition. Neural Computation, 2008, 20, 2792-2838.	1.3	8
54	Group Invariance of Information Geometry on q-Gaussian Distributions Induced by Beta-Divergence. Entropy, 2013, 15, 4732-4747.	1.1	8

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55	SNEP: Simultaneous detection of nucleotide and expression polymorphisms using Affymetrix GeneChip. BMC Bioinformatics, 2009, 10, 131.	1.2	7
56	A Unified Formulation of k-Means, Fuzzy c-Means and Gaussian Mixture Model by the Kolmogorovâ€“Nagumo Average. Entropy, 2021, 23, 518.	1.1	7
57	Novel robust time series analysis for long-term and short-term prediction. Scientific Reports, 2021, 11, 11938.	1.6	7
58	Testing the Hardy-Weinberg Equilibrium in the HLA System. Biometrics, 1990, 46, 415.	0.8	6
59	A geometric look at nuisance parameter effect of local powers in testing hypothesis. Annals of the Institute of Statistical Mathematics, 1991, 43, 245-260.	0.5	6
60	Pharmacokinetic parameter estimations by minimum relative entropy method. Journal of Pharmacokinetics and Pharmacodynamics, 1995, 23, 479-494.	0.6	6
61	Importance Sampling Via the Estimated Sampler. Biometrika, 2007, 94, 985-991.	1.3	6
62	Likelihood for Statistically Equivalent Models. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2010, 72, 193-217.	1.1	6
63	On local likelihood density estimation when the bandwidth is large. Journal of Statistical Planning and Inference, 2006, 136, 839-859.	0.4	5
64	Asymptotical improvement of maximum likelihood estimators on Kullbackâ€“Leibler loss. Journal of Statistical Planning and Inference, 2008, 138, 3502-3511.	0.4	5
65	Density estimation with minimization of U-divergence. Machine Learning, 2013, 90, 29-57.	3.4	5
66	Generalized T-Statistic for Two-Group Classification. Biometrics, 2015, 71, 404-416.	0.8	5
67	Robust bias correction model for estimation of global trend in marine populations. Ecosphere, 2017, 8, e02038.	1.0	5
68	Statistical Methods for Imbalanced Data in Ecological and Biological Studies. SpringerBriefs in Statistics, 2019, , .	0.3	4
69	$$eta $$ -Maxent. SpringerBriefs in Statistics, 2019, , 27-33.	0.3	4
70	Generalized quasi-linear mixed-effects model. Statistical Methods in Medical Research, 2022, , 096228022210858.	0.7	4
71	A projection method of estimation for a subfamily of exponential families. Annals of the Institute of Statistical Mathematics, 1986, 38, 385-398.	0.5	3
72	Common Peak Approach Using Mass Spectrometry Data Sets for Predicting the Effects of Anticancer Drugs on Breast Cancer. Cancer Informatics, 2007, 3, 117693510700300.	0.9	3

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73	Robust QTL analysis by minimum β-divergence method. International Journal of Data Mining and Bioinformatics, 2010, 4, 471.	0.1	3
74	Boosting Learning Algorithm for Pattern Recognition and Beyond. IEICE Transactions on Information and Systems, 2011, E94-D, 1863-1869.	0.4	3
75	Robust Clustering Method in the Presence of Scattered Observations. Neural Computation, 2016, 28, 1141-1162.	1.3	3
76	Pythagoras theorem in information geometry and applications to generalized linear models. Handbook of Statistics, 2021, 45, 15-42.	0.4	3
77	Copula-based measures of asymmetry between the lower and upper tail probabilities. Statistical Papers, 2022, 63, 1907-1929.	0.7	3
78	Robust supervised image classifiers by spatial AdaBoost based on robust loss functions. , 2005, 5982, 124.		2
79	GroupAdaBoost for Selecting Important Genes. , 0, , .		2
80	GroupAdaBoost: Accurate Prediction and Selection of Important Genes. IPSJ Digital Courier, 2007, 3, 145-152.	0.3	2
81	Identifying haplotype block structure using an ancestor-derived model. Journal of Human Genetics, 2007, 52, 738-746.	1.1	2
82	Robust Composite Interval Mapping for QTL Analysis by Minimum beta-Divergence Method. , 2008, , .		2
83	Maximum Regularized Likelihood Estimator of Finite Mixtures with a Structural Model. Communications in Statistics - Theory and Methods, 2010, 39, 1498-1510.	0.6	2
84	Geometry on Positive Definite Matrices Deformed by V-Potentials and Its Submanifold Structure. Signals and Communication Technology, 2014, , 31-55.	0.4	2
85	Binary Classification with a Pseudo Exponential Model and Its Application for Multi-Task Learning. Entropy, 2015, 17, 5673-5694.	1.1	2
86	Reproducible detection of disease-associated markers from gene expression data. BMC Medical Genomics, 2016, 9, 53.	0.7	2
87	Strong model dependence in statistical analysis: goodness of fit is not enough for model choice. Annals of the Institute of Statistical Mathematics, 2020, 72, 329-352.	0.5	2
88	The projection method for accelerated life test model in bivariate exponential distributions. Hiroshima Mathematical Journal, 1992, 22, .	0.1	2
89	Common peak approach using mass spectrometry data sets for predicting the effects of anticancer drugs on breast cancer. Cancer Informatics, 2007, 3, 285-93.	0.9	2
90	Spatio-temporal contextual image classification based on spatial adaboost. , 0, , .		1

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91	PSA CUT-OFF NOMOGRAM THAT AVOID OVER-DETECTION OF PROSTATE CANCER IN ELDERLY MEN. Journal of Urology, 2009, 181, 748-748.	0.2	1
92	Geometry on Positive Definite Matrices Induced from V-Potential Function. Lecture Notes in Computer Science, 2013, , 621-629.	1.0	1
93	Detection of Heterogeneous Structures on the Gaussian Copula Model Using Projective Power Entropy. ISRN Probability and Statistics, 2013, 2013, 1-10.	0.2	1
94	Statistical Analysis of Biomarkers for Personalized Medicine. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-2.	0.7	1
95	Multiple Suboptimal Solutions for Prediction Rules in Gene Expression Data. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-14.	0.7	1
96	Individualized Prostate-specific Antigen Threshold Values to Avoid Overdiagnosis of Prostate Cancer and Reduce Unnecessary Biopsy in Elderly Men. Japanese Journal of Clinical Oncology, 2014, 44, 852-859.	0.6	1
97	Maximum power entropy method for ecological data analysis. AIP Conference Proceedings, 2015, , .	0.3	1
98	A novel boosting algorithm for multi-task learning based on the Itakuda-Saito divergence. , 2015, , .		1
99	Quasi-linear Cox proportional hazards model with cross- L1 penalty. BMC Medical Research Methodology, 2020, 20, 182.	1.4	1
100	Spontaneous Learning for Data Distributions via Minimum Divergence. Signals and Communication Technology, 2017, , 79-99.	0.4	1
101	Information Geometry Associated with Generalized Means. Springer Proceedings in Mathematics and Statistics, 2018, , 279-295.	0.1	1
102	Adaptively robust blind audio signals separation by the minimum β-divergence method. , 2007, , .		0
103	Extension of ROC curve. , 2009, , .		0
104	Duality in a maximum generalized entropy model. , 2015, , .		0
105	Introduction to Imbalanced Data. SpringerBriefs in Statistics, 2019, , 1-10.	0.3	0
106	Weighted Logistic Regression. SpringerBriefs in Statistics, 2019, , 11-25.	0.3	0
107	Machine Learning Methods for Imbalanced Data. SpringerBriefs in Statistics, 2019, , 45-55.	0.3	0
108	Supervised Image Classification of Multi-Spectral Images Based on Statistical Machine Learning. , 2007, , 79-105.		0

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109	Unsupervised Learning Algorithms. , 2022, , 125-152.		0
110	Regression Model. , 2022, , 153-178.		0
111	Maximum Entropy Model. , 2022, , 71-95.		0