

Akimichi Takemura

List of Publications by Year in descending order

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133
papers

1,695
citations

331670

21
h-index

361022

35
g-index

142
all docs

142
docs citations

142
times ranked

572
citing authors

#	ARTICLE	IF	CITATIONS
1	Educational Goals and Achievements of Undergraduate and Graduate Programs of Data Science in Shiga University. <i>Journal of Jsee</i> , 2022, 70, 1_7-1_12.	0.0	0
2	The volume-of-tube method for Gaussian random fields with inhomogeneous variance. <i>Journal of Multivariate Analysis</i> , 2021, , 104819.	1.0	0
3	Game-theoretic derivation of upper hedging prices of multivariate contingent claims and submodularity. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2020, 37, 213-248.	0.9	4
4	Erdős's Feller's Kolmogorov's Petrowsky law of the iterated logarithm for self-normalized martingales: A game-theoretic approach. <i>Annals of Probability</i> , 2019, 47, .	1.8	1
5	Distribution of the ratio of two Wishart matrices and cumulative probability evaluation by the holonomic gradient method. <i>Journal of Multivariate Analysis</i> , 2018, 165, 270-278.	1.0	6
6	Relation between the rate of convergence of strong law of large numbers and the rate of concentration of Bayesian prior in game-theoretic probability. <i>Stochastic Processes and Their Applications</i> , 2018, 128, 1466-1484.	0.9	2
7	A new era of statistics and data science education in Japanese universities. <i>Japanese Journal of Statistics and Data Science</i> , 2018, 1, 109-116.	1.2	3
8	A-hypergeometric distributions and Newton polytopes. <i>Advances in Applied Mathematics</i> , 2018, 99, 109-133.	0.7	11
9	Exact ZF Analysis and Computer-Algebra-Aided Evaluation in Rank-1 LoS Rician Fading. <i>IEEE Transactions on Wireless Communications</i> , 2016, 15, 5245-5259.	9.2	10
10	An objective look at obtaining the plotting positions for QQ-plots. <i>Communications in Statistics - Theory and Methods</i> , 2016, 45, 4716-4728.	1.0	2
11	Chi-square mixture representations for the distribution of the scalar Schur complement in a noncentral Wishart matrix. <i>Statistics and Probability Letters</i> , 2016, 115, 79-87.	0.7	5
12	Exponential decay rate of partial autocorrelation coefficients of ARMA and short-memory processes. <i>Statistics and Probability Letters</i> , 2016, 110, 207-210.	0.7	3
13	Holonomic gradient method for distribution function of a weighted sum of noncentral chi-square random variables. <i>Computational Statistics</i> , 2016, 31, 1645-1659.	1.5	4
14	Conformal geometry of sequential test in multidimensional curved exponential family. <i>Sequential Analysis</i> , 2016, 35, 30-68.	0.5	0
15	Estimation of exponential-polynomial distribution by holonomic gradient descent. <i>Communications in Statistics - Theory and Methods</i> , 2016, 45, 6860-6882.	1.0	6
16	A Power-Law Growth and Decay Model with Autocorrelation for Posting Data to Social Networking Services. <i>PLoS ONE</i> , 2016, 11, e0160592.	2.5	2
17	Properties of powers of functions satisfying second-order linear differential equations with applications to statistics. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2015, 32, 553-572.	0.9	2
18	Statistical Modeling of Soil Moisture, Integrating Satellite Remote-Sensing (SAR) and Ground-Based Data. <i>Remote Sensing</i> , 2015, 7, 2752-2780.	4.0	21

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19	Decidability in complex social choices. <i>Evolutionary and Institutional Economics Review</i> , 2015, 12, 141-168.	0.6	2
20	MIMO Zero-Forcing Performance Evaluation Using the Holonomic Gradient Method. <i>IEEE Transactions on Wireless Communications</i> , 2015, 14, 2322-2335.	9.2	29
21	Non-linear time-varying stochastic models for agroclimate risk assessment. <i>Environmental and Ecological Statistics</i> , 2015, 22, 227-246.	3.5	3
22	Calculation of orthant probabilities by the holonomic gradient method. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2015, 32, 187-204.	0.9	6
23	Schur Complement Based Analysis of MIMO Zero-Forcing for Rician Fading. <i>IEEE Transactions on Wireless Communications</i> , 2015, 14, 1757-1771.	9.2	19
24	Derandomization in game-theoretic probability. <i>Stochastic Processes and Their Applications</i> , 2015, 125, 39-59.	0.9	4
25	Standard imsets for undirected and chain graphical models. <i>Bernoulli</i> , 2015, 21, .	1.3	1
26	Discussion on "Sequential Estimation for Time Series Models" by T. N. Sriram and Ross Iaci. <i>Sequential Analysis</i> , 2014, 33, 190-193.	0.5	1
27	Exact MIMO Zero-Forcing Detection Analysis for Transmit-Correlated Rician Fading. <i>IEEE Transactions on Wireless Communications</i> , 2014, 13, 1514-1527.	9.2	41
28	Markov degree of the three-state toric homogeneous Markov chain model. <i>Beitrage Zur Algebra Und Geometrie</i> , 2014, 55, 161-188.	0.5	4
29	Markov degree of the Birkhoff model. <i>Journal of Algebraic Combinatorics</i> , 2014, 40, 293-311.	0.8	6
30	Graver basis for an undirected graph and its application to testing the beta model of random graphs. <i>Annals of the Institute of Statistical Mathematics</i> , 2013, 65, 191-212.	0.8	14
31	The law of the iterated logarithm in game-theoretic probability with quadratic and stronger hedges. <i>Stochastic Processes and Their Applications</i> , 2013, 123, 3132-3152.	0.9	7
32	The holonomic gradient method for the distribution function of the largest root of a Wishart matrix. <i>Journal of Multivariate Analysis</i> , 2013, 117, 296-312.	1.0	41
33	Properties and applications of Fisher distribution on the rotation group. <i>Journal of Multivariate Analysis</i> , 2013, 116, 440-455.	1.0	21
34	Separation of integer points by a hyperplane under some weak notions of discrete convexity. <i>Discrete Mathematics</i> , 2013, 313, 8-18.	0.7	0
35	Bayesian Logistic Betting Strategy Against Probability Forecasting. <i>Stochastic Analysis and Applications</i> , 2013, 31, 214-234.	1.5	0
36	Markov Bases and Designed Experiments. , 2013, , 165-221.		0

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37	Design and Analysis of Fractional Factorial Experiments From the Viewpoint of Computational Algebraic Statistics. <i>Journal of Statistical Theory and Practice</i> , 2012, 6, 147-161.	0.5	3
38	Markov bases for typical block effect models of two-way contingency tables. <i>Journal of Multivariate Analysis</i> , 2012, 112, 219-229.	1.0	1
39	On Intersection Lattices of Hyperplane Arrangements Generated by Generic Points. <i>Annals of Combinatorics</i> , 2012, 16, 789-813.	0.6	4
40	Markov Bases in Algebraic Statistics. <i>Springer Series in Statistics</i> , 2012, , .	0.9	41
41	Hierarchical subspace models for contingency tables. <i>Journal of Multivariate Analysis</i> , 2012, 103, 19-34.	1.0	5
42	Convergence of random series and the rate of convergence of the strong law of large numbers in game-theoretic probability. <i>Stochastic Processes and Their Applications</i> , 2012, 122, 1-30.	0.9	10
43	Markov chain Monte Carlo test of toric homogeneous Markov chains. <i>Statistical Methodology</i> , 2012, 9, 392-406.	0.5	1
44	Approximations and asymptotics of upper hedging prices in multinomial models. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2012, 29, 1-21.	0.9	2
45	LÃ©vy's Zero-One Law in Game-Theoretic Probability. <i>Journal of Theoretical Probability</i> , 2012, 25, 1-24.	0.8	8
46	Running Markov Chain Without Markov Bases. <i>Springer Series in Statistics</i> , 2012, , 275-286.	0.9	4
47	A lower bound for the Graver complexity of the incidence matrix of a complete bipartite graph. <i>Electronic Journal of Combinatorics</i> , 2012, 3, 695-708.	0.1	3
48	GrÃ¼bner Basis Techniques for Design of Experiments. <i>Springer Series in Statistics</i> , 2012, , 261-273.	0.9	0
49	Arrangements stable under the Coxeter groups. , 2012, , 327-354.		1
50	Disclosure Limitation Problem and Markov Basis. <i>Springer Series in Statistics</i> , 2012, , 251-259.	0.9	0
51	New Procedures for Testing Whether Stock Price Processes are Martingales. <i>Computational Economics</i> , 2011, 37, 67-88.	2.6	2
52	An asymptotically optimal policy for finite support models in the multiarmed bandit problem. <i>Machine Learning</i> , 2011, 85, 361-391.	5.4	66
53	The generality of the zero-one laws. <i>Annals of the Institute of Statistical Mathematics</i> , 2011, 63, 873-885.	0.8	8
54	Periodicity of Non-Central Integral Arrangements Modulo Positive Integers. <i>Annals of Combinatorics</i> , 2011, 15, 449-464.	0.6	8

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55	Ranking patterns of unfolding models of codimension one. <i>Advances in Applied Mathematics</i> , 2011, 47, 379-400.	0.7	8
56	Holonomic gradient descent and its application to the Fisher-Bingham integral. <i>Advances in Applied Mathematics</i> , 2011, 47, 639-658.	0.7	52
57	Sequential optimizing investing strategy with neural networks. <i>Expert Systems With Applications</i> , 2011, 38, 12991-12998.	7.6	1
58	Admissible estimator of the eigenvalues of the variance-covariance matrix for multivariate normal distributions. <i>Journal of Multivariate Analysis</i> , 2011, 102, 801-815.	1.0	2
59	Sequential optimizing strategy in multi-dimensional bounded forecasting games. <i>Stochastic Processes and Their Applications</i> , 2011, 121, 155-183.	0.9	11
60	Conformal Geometry of Statistical Manifold with Application to Sequential Estimation. <i>Sequential Analysis</i> , 2011, 30, 308-337.	0.5	6
61	A Markov Basis for Two-state Toric Homogeneous Markov Chain Model Without Initial Parameters. <i>Journal of the Japan Statistical Society</i> , 2011, 41, 033-049.	0.1	5
62	Minimal and minimal invariant Markov bases of decomposable models for contingency tables. <i>Bernoulli</i> , 2010, 16, .	1.3	9
63	Markov chain Monte Carlo tests for designed experiments. <i>Journal of Statistical Planning and Inference</i> , 2010, 140, 817-830.	0.6	17
64	Markov basis and Gröbner basis of Segre-Veronese configuration for testing independence in group-wise selections. <i>Annals of the Institute of Statistical Mathematics</i> , 2010, 62, 299-321.	0.8	13
65	On connectivity of fibers with positive marginals in multiple logistic regression. <i>Journal of Multivariate Analysis</i> , 2010, 101, 909-925.	1.0	52
66	Multistep Bayesian Strategy in Coin-Tossing Games and Its Application to Asset Trading Games in Continuous Time. <i>Stochastic Analysis and Applications</i> , 2010, 28, 842-861.	1.5	5
67	A Localization Approach to Improve Iterative Proportional Scaling in Gaussian Graphical Models. <i>Communications in Statistics - Theory and Methods</i> , 2010, 39, 1643-1654.	1.0	8
68	Integral representations of one-dimensional projections for multivariate stable densities. <i>Journal of Multivariate Analysis</i> , 2009, 100, 334-344.	1.0	5
69	Markov bases for two-way subtable sum problems. <i>Journal of Pure and Applied Algebra</i> , 2009, 213, 1507-1521.	0.6	13
70	Bayes admissible estimation of the means in Poisson decomposable graphical models. <i>Journal of Statistical Planning and Inference</i> , 2009, 139, 1297-1319.	0.6	7
71	Some characterizations of affinely full-dimensional factorial designs. <i>Journal of Statistical Planning and Inference</i> , 2009, 139, 3525-3532.	0.6	10
72	Iterative proportional scaling via decomposable submodels for contingency tables. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 966-978.	1.2	3

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73	A Markov basis for conditional test of common diagonal effect in quasi-independence model for square contingency tables. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 1006-1014.	1.2	9
74	A new formulation of asset trading games in continuous time with essential forcing of variation exponent. <i>Bernoulli</i> , 2009, 15, .	1.3	14
75	Periodicity of hyperplane arrangements with integral coefficients modulo positive integers. <i>Journal of Algebraic Combinatorics</i> , 2008, 27, 317-330.	0.8	23
76	Goodness-of-fit tests for symmetric stable distributions – Empirical characteristic function approach. <i>Test</i> , 2008, 17, 546-566.	1.1	35
77	Minimal invariant Markov basis for sampling contingency tables with fixed marginals. <i>Annals of the Institute of Statistical Mathematics</i> , 2008, 60, 229-256.	0.8	9
78	On a simple strategy weakly forcing the strong law of large numbers in the bounded forecasting game. <i>Annals of the Institute of Statistical Mathematics</i> , 2008, 60, 801-812.	0.8	19
79	Gröbner bases of nested configurations. <i>Journal of Algebra</i> , 2008, 320, 2583-2593.	0.7	11
80	Indispensable monomials of toric ideals and Markov bases. <i>Journal of Symbolic Computation</i> , 2008, 43, 490-507.	0.8	21
81	The largest group of invariance for Markov bases and toric ideals. <i>Journal of Symbolic Computation</i> , 2008, 43, 342-358.	0.8	17
82	Star-shaped distributions and their generalizations. <i>Journal of Statistical Planning and Inference</i> , 2008, 138, 3429-3447.	0.6	14
83	Euler characteristic heuristic for approximating the distribution of the largest eigenvalue of an orthogonally invariant random matrix. <i>Journal of Statistical Planning and Inference</i> , 2008, 138, 3357-3378.	0.6	4
84	The tube method for the moment index in projection pursuit. <i>Journal of Statistical Planning and Inference</i> , 2008, 138, 2749-2762.	0.6	7
85	Hierarchical orbital decompositions and extended decomposable distributions. <i>Journal of Multivariate Analysis</i> , 2008, 99, 339-357.	1.0	2
86	Admissibility and minimaxity of generalized Bayes estimators for spherically symmetric family. <i>Journal of Multivariate Analysis</i> , 2008, 99, 50-73.	1.0	12
87	Asymptotic distribution of Wishart matrix for block-wise dispersion of population eigenvalues. <i>Journal of Multivariate Analysis</i> , 2008, 99, 751-775.	1.0	2
88	A generalization of the integer linear infeasibility problem. <i>Discrete Optimization</i> , 2008, 5, 36-52.	0.9	8
89	Implications of contrarian and one-sided strategies for the fair-coin game. <i>Stochastic Processes and Their Applications</i> , 2008, 118, 2125-2142.	0.9	8
90	Capital Process and Optimality Properties of a Bayesian Skeptic in Coin-Tossing Games. <i>Stochastic Analysis and Applications</i> , 2008, 26, 1161-1180.	1.5	11

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91	Game-theoretic versions of strong law of large numbers for unbounded variables. <i>Stochastics</i> , 2007, 79, 449-468.	1.1	16
92	An asymptotic expansion of Wishart distribution when the population eigenvalues are infinitely dispersed. <i>Statistical Methodology</i> , 2007, 4, 158-184.	0.5	2
93	Improving on the maximum likelihood estimators of the means in Poisson decomposable graphical models. <i>Journal of Multivariate Analysis</i> , 2007, 98, 410-434.	1.0	5
94	Conditions for swappability of records in a microdata set when some marginals are fixed. <i>Computational Statistics</i> , 2007, 22, 173-185.	1.5	2
95	Game-Theoretic Derivation of Discrete Distributions and Discrete Pricing Formulas. <i>Journal of the Japan Statistical Society</i> , 2007, 37, 87-104.	0.1	4
96	Simultaneous Estimation of the Means in Some Poisson Log Linear Models. <i>Journal of the Japan Statistical Society</i> , 2006, 36, 17-36.	0.1	3
97	Arrangements and Ranking Patterns. <i>Annals of Combinatorics</i> , 2006, 10, 219-235.	0.6	10
98	Some Improvements in Numerical Evaluation of Symmetric Stable Density and Its Derivatives. <i>Communications in Statistics - Theory and Methods</i> , 2006, 35, 149-172.	1.0	25
99	Parallel matching for ranking all teams in a tournament. <i>Advances in Applied Probability</i> , 2006, 38, 804-826.	0.7	1
100	Validity of the expected Euler characteristic heuristic. <i>Annals of Probability</i> , 2005, 33, 1362.	1.8	55
101	Distance-reducing Markov bases for sampling from a discrete sample space. <i>Bernoulli</i> , 2005, 11, 793.	1.3	17
102	Distribution of eigenvalues and eigenvectors of Wishart matrix when the population eigenvalues are infinitely dispersed and its application to minimax estimation of covariance matrix. <i>Journal of Multivariate Analysis</i> , 2005, 94, 271-299.	1.0	18
103	Characterization of rankings generated by linear discriminant analysis. <i>Journal of Multivariate Analysis</i> , 2005, 92, 343-358.	1.0	3
104	Strong consistency of MLE for finite uniform mixtures when the scale parameters are exponentially small. <i>Annals of the Institute of Statistical Mathematics</i> , 2005, 57, 1-19.	0.8	7
105	Empirical characteristic function approach to goodness-of-fit tests for the Cauchy distribution with parameters estimated by MLE or EISE. <i>Annals of the Institute of Statistical Mathematics</i> , 2005, 57, 183-199.	0.8	40
106	Markov chain Monte Carlo exact tests for incomplete two-way contingency tables. <i>Journal of Statistical Computation and Simulation</i> , 2005, 75, 787-812.	1.2	34
107	Defensive Forecasting for Linear Protocols. <i>Lecture Notes in Computer Science</i> , 2005, , 459-473.	1.3	7
108	Some characterizations of minimal Markov basis for sampling from discrete conditional distributions. <i>Annals of the Institute of Statistical Mathematics</i> , 2004, 56, 1-17.	0.8	46

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109	Tail probabilities of the limiting null distributions of the Anderson–Stephens statistics. <i>Journal of Multivariate Analysis</i> , 2004, 89, 261-291.	1.0	1
110	Minimal Basis for a Connected Markov Chain over $3 \times 3 \times K$ Contingency Tables with Fixed Two-Dimensional Marginals. <i>Australian and New Zealand Journal of Statistics</i> , 2003, 45, 229-249.	0.9	58
111	Tail probability via tube formula when the critical radius is zero. <i>Bernoulli</i> , 2003, 9, 535.	1.3	9
112	On the equivalence of the tube and Euler characteristic methods for the distribution of the maximum of Gaussian fields over piecewise smooth domains. <i>Annals of Applied Probability</i> , 2002, 12, 768.	1.3	40
113	Application of tube formula to distributional problems in multiway layouts. <i>Applied Stochastic Models in Business and Industry</i> , 2002, 18, 245-257.	1.5	1
114	MINIMUM UNSAFE AND MAXIMUM SAFE SETS OF VARIABLES FOR DISCLOSURE RISK ASSESSMENT OF INDIVIDUAL RECORDS IN A MICRODATA SET. <i>Journal of the Japan Statistical Society</i> , 2002, 32, 107-117.	0.1	5
115	Tail probabilities of the maxima of multilinear forms and their applications. <i>Annals of Statistics</i> , 2001, 29, .	2.6	55
116	Shrinkage Estimation towards a Closed Convex Set with a Smooth Boundary. <i>Journal of Multivariate Analysis</i> , 2000, 75, 79-111.	1.0	15
117	Some Geometry of the Cone of Nonnegative Definite Matrices and Weights of Associated X^2 Distribution. <i>Annals of the Institute of Statistical Mathematics</i> , 2000, 52, 1-14.	0.8	9
118	RANKINGS GENERATED BY SPHERICAL DISCRIMINANT ANALYSIS. <i>Journal of the Japan Statistical Society</i> , 2000, 30, 43-51.	0.1	1
119	Some Models for Merging Groups in Microdata. <i>Oyo Tokeigaku</i> , 2000, 29, 63-82.	0.1	1
120	Shrinkage to smooth non-convex cone :Principal component analysis as stein estimation. <i>Communications in Statistics - Theory and Methods</i> , 1999, 28, 651-669.	1.0	5
121	RELATIONSHIP BETWEEN LOGARITHMIC SERIES MODEL AND OTHER SUPERPOPULATION MODELS USEFUL FOR MICRODATA DISCLOSURE RISK ASSESSMENT. <i>Journal of the Japan Statistical Society</i> , 1998, 28, 125-134.	0.1	10
122	On Rankings Generated by Pairwise Linear Discriminant Analysis of Populations. <i>Journal of Multivariate Analysis</i> , 1997, 61, 1-28.	1.0	9
123	Weights of χ^2 distribution for smooth or piecewise smooth cone alternatives. <i>Annals of Statistics</i> , 1997, 25, .	2.6	51
124	A proof of independent Bartlett correctability of nested likelihood ratio tests. <i>Annals of the Institute of Statistical Mathematics</i> , 1996, 48, 603-620.	0.8	2
125	THE EFFECT OF HETEROSCEDASTICITY ON THE ACTUAL SIZE OF THE CHOW TEST. <i>Journal of the Japan Statistical Society</i> , 1996, 26, 127-134.	0.1	0
126	Inadmissibility of non-order-preserving orthogonally invariant estimators of the covariance matrix in the case of Stein's loss. <i>Journal of Multivariate Analysis</i> , 1992, 41, 117-131.	1.0	40

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127	On sum of $0 \leq 1$ random variables I. Univariate case. Annals of the Institute of Statistical Mathematics, 1987, 39, 85-102.	0.8	13
128	On sum of $0 \leq 1$ random variables II. Multivariate case. Annals of the Institute of Statistical Mathematics, 1987, 39, 307-324.	0.8	6
129	WHY DO NONINVERTIBLE ESTIMATED MOVING AVERAGES OCCUR?*. Journal of Time Series Analysis, 1986, 7, 235-254.	1.2	55
130	On the equivalence of proportional cell frequencies and orthogonality of interaction spaces in n-way Anova. Linear Algebra and Its Applications, 1985, 67, 35-49.	0.9	1
131	An orthogonally invariant minimax estimator of the covariance matrix of a multivariate normal population. Tsukuba Journal of Mathematics, 1984, 8, 367.	0.1	50
132	Tensor Analysis of ANOVA Decomposition. Journal of the American Statistical Association, 1983, 78, 894-900.	3.1	51
133	A new proof of admissibility of tests in the multivariate analysis of variance. Journal of Multivariate Analysis, 1982, 12, 457-468.	1.0	6