Kenneth L Lange

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3024230/publications.pdf

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97 15,146 33 papers citations h-index

107 107 107 21822 all docs docs citations times ranked citing authors

90

g-index

#	Article	IF	CITATIONS
1	Fast model-based estimation of ancestry in unrelated individuals. Genome Research, 2009, 19, 1655-1664.	2.4	6,588
2	A Tutorial on MM Algorithms. American Statistician, 2004, 58, 30-37.	0.9	1,257
3	Localization of an ataxia-telangiectasia gene to chromosome 11q22–23. Nature, 1988, 336, 577-580.	13.7	677
4	Genome-wide association analysis by lasso penalized logistic regression. Bioinformatics, 2009, 25, 714-721.	1.8	639
5	Programs for pedigree analysis: Mendel, Fisher, and dGene. Genetic Epidemiology, 1988, 5, 471-472.	0.6	562
6	Coordinate descent algorithms for lasso penalized regression. Annals of Applied Statistics, 2008, 2, .	0.5	533
7	Prioritizing GWAS Results: A Review of Statistical Methods and Recommendations for Their Application. American Journal of Human Genetics, 2010, 86, 6-22.	2.6	531
8	Extensions to pedigree analysis III. Variance components by the scoring method. Annals of Human Genetics, 1976, 39, 485-491.	0.3	409
9	Optimization Transfer Using Surrogate Objective Functions. Journal of Computational and Graphical Statistics, 2000, 9, 1-20.	0.9	396
10	Detection and Integration of Genotyping Errors in Statistical Genetics. American Journal of Human Genetics, 2002, 70, 496-508.	2.6	317
11	A Theoretical Study of Some Maximum Likelihood Algorithms for Emission and Transmission Tomography. IEEE Transactions on Medical Imaging, 1987, 6, 106-114.	5.4	274
12	Extensions to pedigree analysis. IV. Covariance components models for multivariate traits. American Journal of Medical Genetics Part A, 1983, 14, 513-524.	2.4	253
13	Mathematical and Statistical Methods for Genetic Analysis. Statistics in the Health Sciences, 2002, , .	0.2	221
14	Numerical Analysis for Statisticians. Statistics and Computing, 2010, , .	0.1	202
15	Normal/Independent Distributions and Their Applications in Robust Regression. Journal of Computational and Graphical Statistics, 1993, 2, 175-198.	0.9	181
16	Splitting Methods for Convex Clustering. Journal of Computational and Graphical Statistics, 2015, 24, 994-1013.	0.9	131
17	A quasi-Newton acceleration for high-dimensional optimization algorithms. Statistics and Computing, 2011, 21, 261-273.	0.8	127
18	Association screening of common and rare genetic variants by penalized regression. Bioinformatics, 2010, 26, 2375-2382.	1.8	120

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19	Mendel: the Swiss army knife of genetic analysis programs. Bioinformatics, 2013, 29, 1568-1570.	1.8	104
20	EM algorithms without missing data. Statistical Methods in Medical Research, 1997, 6, 38-54.	0.7	68
21	The MM Alternative to EM. Statistical Science, 2010, 25, .	1.6	68
22	Central limit theorems of pedigrees. Journal of Mathematical Biology, 1978, 6, 59-66.	0.8	64
23	Association testing with Mendel. Genetic Epidemiology, 2005, 29, 36-50.	0.6	57
24	Gamete-Competition Models. American Journal of Human Genetics, 2000, 66, 1168-1172.	2.6	53
25	Stability selection for genome-wide association. Genetic Epidemiology, 2011, 35, 722-728.	0.6	51
26	Genotype imputation via matrix completion. Genome Research, 2013, 23, 509-518.	2.4	50
27	MM Algorithms for Some Discrete Multivariate Distributions. Journal of Computational and Graphical Statistics, 2010, 19, 645-665.	0.9	48
28	Linkage analysis without defined pedigrees. Genetic Epidemiology, 2011, 35, 360-370.	0.6	40
29	Imaging genetics via sparse canonical correlation analysis. , 2013, 2013, 740-743.		40
30	Next-Generation Statistical Genetics: Modeling, Penalization, and Optimization in High-Dimensional Data. Annual Review of Statistics and Its Application, 2014, 1, 279-300.	4.1	40
31	MM algorithms for geometric and signomial programming. Mathematical Programming, 2014, 143, 339-356.	1.6	35
32	Modeling of Cancer Stem Cell State Transitions Predicts Therapeutic Response. PLoS ONE, 2015, 10, e0135797.	1.1	34
33	Convex Clustering: An Attractive Alternative to Hierarchical Clustering. PLoS Computational Biology, 2015, 11, e1004228.	1.5	34
34	A maximum likelihood test of the two locus model for coeliac disease. American Journal of Medical Genetics Part A, 1982, 12, 75-82.	2.4	33
35	Graphics Processing Units and High-Dimensional Optimization. Statistical Science, 2010, 25, 311-324.	1.6	31
36	A Brief Survey of Modern Optimization for Statisticians. International Statistical Review, 2014, 82, 46-70.	1.1	31

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37	Stable estimation of a covariance matrix guided by nuclear norm penalties. Computational Statistics and Data Analysis, 2014, 80, 117-128.	0.7	31
38	Cohabitation, convergence, and environmental covariances. American Journal of Medical Genetics Part A, 1986, 24, 483-491.	2.4	30
39	On the Bumpy Road to the Dominant Mode. Scandinavian Journal of Statistics, 2010, 37, 612-631.	0.9	30
40	An MM Algorithm for Multicategory Vertex Discriminant Analysis. Journal of Computational and Graphical Statistics, 2008, 17, 527-544.	0.9	29
41	OpenMendel: a cooperative programming project for statistical genetics. Human Genetics, 2020, 139, 61-71.	1.8	29
42	Haplotyping Algorithms. , 1996, , 89-110.		29
43	Association Testing in a Linked Region Using Large Pedigrees. American Journal of Human Genetics, 2005, 76, 538-542.	2.6	25
44	A Poisson model for random multigraphs. Bioinformatics, 2010, 26, 2004-2011.	1.8	25
45	Exploring Population Structure with Admixture Models and Principal Component Analysis. Methods in Molecular Biology, 2020, 2090, 67-86.	0.4	23
46	Distance majorization and its applications. Mathematical Programming, 2014, 146, 409-436.	1.6	22
47	Computing Estimates in the Proportional Odds Model. Annals of the Institute of Statistical Mathematics, 2002, 54, 155-168.	0.5	19
48	Multicategory vertex discriminant analysis for high-dimensional data. Annals of Applied Statistics, 2010, 4, .	0.5	19
49	Penalized estimation of haplotype frequencies. Bioinformatics, 2008, 24, 1596-1602.	1.8	16
50	Fast spatial ancestry via flexible allele frequency surfaces. Bioinformatics, 2014, 30, 2915-2922.	1.8	16
51	An examination of school reopening strategies during the SARS-CoV-2 pandemic. PLoS ONE, 2021, 16, e0251242.	1.1	16
52	MM Algorithms for Variance Components Models. Journal of Computational and Graphical Statistics, 2019, 28, 350-361.	0.9	13
53	BioSimulator.jl: Stochastic simulation in Julia. Computer Methods and Programs in Biomedicine, 2018, 167, 23-35.	2.6	12
54	Accurate Stochastic Simulation via the Step Anticipation <i>Ĭ"</i> -Leaping (SAL) Algorithm. Journal of Computational Biology, 2009, 16, 1195-1208.	0.8	11

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55	Mendel-GPU: haplotyping and genotype imputation on graphics processing units. Bioinformatics, 2012, 28, 2979-2980.	1.8	11
56	Variance component models for X-linked QTLs. Genetic Epidemiology, 2006, 30, 380-383.	0.6	10
57	Fast Genomeâ€Wide QTL Association Mapping on Pedigree and Population Data. Genetic Epidemiology, 2017, 41, 174-186.	0.6	10
58	Iterative hard thresholding in genome-wide association studies: Generalized linear models, prior weights, and double sparsity. GigaScience, 2020, 9, .	3.3	10
59	The Pedigree Trimming Problem. Human Heredity, 2004, 58, 108-111.	0.4	9
60	Computational Statistics and Optimization Theory at UCLA. American Statistician, 2004, 58, 9-11.	0.9	9
61	A heterozygote–homozygote test of Hardy–Weinberg equilibrium. European Journal of Human Genetics, 2009, 17, 1495-1500.	1.4	9
62	The MM Algorithm. Springer Texts in Statistics, 2013, , 185-219.	3.8	9
63	A dictionary model for haplotyping, genotype calling, and association testing. Genetic Epidemiology, 2007, 31, 672-683.	0.6	8
64	Modeling maternalâ€offspring geneâ€gene interactions: the extendedâ€MFG test. Genetic Epidemiology, 2010, 34, 512-521.	0.6	8
65	Quantitative Trait Loci Association Mapping by Imputation of Strain Origins in Multifounder Crosses. Genetics, 2012, 190, 459-473.	1.2	8
66	Matrix completion discriminant analysis. Computational Statistics and Data Analysis, 2015, 92, 115-125.	0.7	8
67	A cross-population extended haplotype-based homozygosity score test to detect positive selection in genome-wide scans. Statistics and Its Interface, 2011, 4, 51-63.	0.2	8
68	Bayesian Gaussian Mixture Models for High-Density Genotyping Arrays. Journal of the American Statistical Association, 2008, 103, 89-100.	1.8	7
69	Mixed Effects Models for Quantitative Trait Loci Mapping With Inbred Strains. Genetics, 2008, 180, 1743-1761.	1.2	7
70	A Look at the Generalized Heron Problem through the Lens of Majorization-Minimization. American Mathematical Monthly, 2014, 121, 95.	0.2	7
71	A majorization–minimization algorithm for split feasibility problems. Computational Optimization and Applications, 2018, 71, 795-828.	0.9	7
72	Estimating Ethnic Admixture from Pedigree Data. American Journal of Human Genetics, 2008, 82, 748-755.	2.6	6

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73	Iterative hard thresholding for model selection in genomeâ€wide association studies. Genetic Epidemiology, 2017, 41, 756-768.	0.6	6
74	Pooled analysis of radiation hybrids identifies loci for growth and drug action in mammalian cells. Genome Research, 2020, 30, 1458-1467.	2.4	6
75	Fast genome-wide pedigree quantitative trait loci analysis using MENDEL. BMC Proceedings, 2014, 8, S93.	1.8	5
76	Linear mixed models for association analysis of quantitative traits with nextâ€generation sequencing data. Genetic Epidemiology, 2019, 43, 189-206.	0.6	5
77	Path following in the exact penalty method of convex programming. Computational Optimization and Applications, 2015, 61, 609-634.	0.9	4
78	Coupling bounds for approximating birth–death processes by truncation. Statistics and Probability Letters, 2016, 109, 30-38.	0.4	4
79	A fast data-driven method for genotype imputation, phasing and local ancestry inference: Mendellmpute.jl. Bioinformatics, 2021, 37, 4756-4763.	1.8	4
80	A proximal distance algorithm for likelihood-based sparse covariance estimation. Biometrika, 2022, 109, 1047-1066.	1.3	4
81	Estimation for the Simple Linear Boolean Model. Methodology and Computing in Applied Probability, 2006, 8, 559-571.	0.7	3
82	Modern simulation utilities for genetic analysis. BMC Bioinformatics, 2021, 22, 228.	1.2	3
83	Efficiency of Protein Production from mRNA. Journal of Statistical Theory and Practice, 2008, 2, 173-182.	0.3	2
84	A fast procedure for calculating importance weights in bootstrap sampling. Computational Statistics and Data Analysis, 2011, 55, 26-33.	0.7	2
85	Hadamard's Determinant Inequality. American Mathematical Monthly, 2014, 121, 258.	0.2	2
86	A multivariate Bernoulli model to predict DNasel hypersensitivity status from haplotype data. Bioinformatics, 2015, 31, 3514-3521.	1.8	2
87	Orthogonal Trace-Sum Maximization: Applications, Local Algorithms, and Global Optimality. SIAM Journal on Matrix Analysis and Applications, 2021, 42, 859-882.	0.7	2
88	Differential methods for assessing sensitivity in biological models. PLoS Computational Biology, 2022, 18, e1009598.	1.5	2
89	Sex differences in recombination fraction estimates and their effect on ordering of chromosome 11 markers. Genetic Epidemiology, 1986, 3, 185-190.	0.6	1
90	Stochastic simulation algorithms for Interacting Particle Systems. PLoS ONE, 2021, 16, e0247046.	1.1	1

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91	A Look at the Generalized Heron Problem through the Lens of Majorization-Minimization. American Mathematical Monthly, 2014, 121, 95-108.	0.2	1
92	Genomewide Motif Identification Using a Dictionary Model., 0, , 157-172.		0
93	Feasibility and Duality. Springer Texts in Statistics, 2013, , 383-414.	3.8	O
94	Penalty and Barrier Methods. Springer Texts in Statistics, 2013, , 313-339.	3.8	0
95	Polya′s Random Walk Theorem Revisited. American Mathematical Monthly, 2015, 122, 1005.	0.2	O
96	Genome-wide QTL and eQTL analyses using Mendel. BMC Proceedings, 2016, 10, 239-244.	1.8	0
97	Proximal Distance Algorithms: Theory and Practice. Journal of Machine Learning Research, 2019, 20, .	62.4	0