Kenneth L Lange

List of Publications by Year in descending order

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Version: 2024-02-01

126907 15,146 97 33 citations h-index papers

g-index 107 107 107 21822 docs citations times ranked citing authors all docs

45317

90

| # | Article | IF | Citations |
|----|--|------|-----------|
| 1 | A proximal distance algorithm for likelihood-based sparse covariance estimation. Biometrika, 2022, 109, 1047-1066. | 2.4 | 4 |
| 2 | Differential methods for assessing sensitivity in biological models. PLoS Computational Biology, 2022, 18, e1009598. | 3.2 | 2 |
| 3 | Orthogonal Trace-Sum Maximization: Applications, Local Algorithms, and Global Optimality. SIAM Journal on Matrix Analysis and Applications, 2021, 42, 859-882. | 1.4 | 2 |
| 4 | Stochastic simulation algorithms for Interacting Particle Systems. PLoS ONE, 2021, 16, e0247046. | 2.5 | 1 |
| 5 | An examination of school reopening strategies during the SARS-CoV-2 pandemic. PLoS ONE, 2021, 16, e0251242. | 2.5 | 16 |
| 6 | Modern simulation utilities for genetic analysis. BMC Bioinformatics, 2021, 22, 228. | 2.6 | 3 |
| 7 | A fast data-driven method for genotype imputation, phasing and local ancestry inference: MendelImpute.jl. Bioinformatics, 2021, 37, 4756-4763. | 4.1 | 4 |
| 8 | OpenMendel: a cooperative programming project for statistical genetics. Human Genetics, 2020, 139, 61-71. | 3.8 | 29 |
| 9 | Pooled analysis of radiation hybrids identifies loci for growth and drug action in mammalian cells. Genome Research, 2020, 30, 1458-1467. | 5.5 | 6 |
| 10 | Iterative hard thresholding in genome-wide association studies: Generalized linear models, prior weights, and double sparsity. GigaScience, 2020, 9, . | 6.4 | 10 |
| 11 | Exploring Population Structure with Admixture Models and Principal Component Analysis. Methods in Molecular Biology, 2020, 2090, 67-86. | 0.9 | 23 |
| 12 | Linear mixed models for association analysis of quantitative traits with nextâ€generation sequencing data. Genetic Epidemiology, 2019, 43, 189-206. | 1.3 | 5 |
| 13 | MM Algorithms for Variance Components Models. Journal of Computational and Graphical Statistics, 2019, 28, 350-361. | 1.7 | 13 |
| 14 | Proximal Distance Algorithms: Theory and Practice. Journal of Machine Learning Research, 2019, 20, . | 62.4 | 0 |
| 15 | BioSimulator.jl: Stochastic simulation in Julia. Computer Methods and Programs in Biomedicine, 2018, 167, 23-35. | 4.7 | 12 |
| 16 | A majorization–minimization algorithm for split feasibility problems. Computational Optimization and Applications, 2018, 71, 795-828. | 1.6 | 7 |
| 17 | Fast Genomeâ€Wide QTL Association Mapping on Pedigree and Population Data. Genetic Epidemiology, 2017, 41, 174-186. | 1.3 | 10 |
| 18 | Iterative hard thresholding for model selection in genomeâ€wide association studies. Genetic Epidemiology, 2017, 41, 756-768. | 1.3 | 6 |

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| 19 | Genome-wide QTL and eQTL analyses using Mendel. BMC Proceedings, 2016, 10, 239-244. | 1.6 | O |
| 20 | Coupling bounds for approximating birth–death processes by truncation. Statistics and Probability Letters, 2016, 109, 30-38. | 0.7 | 4 |
| 21 | Modeling of Cancer Stem Cell State Transitions Predicts Therapeutic Response. PLoS ONE, 2015, 10, e0135797. | 2.5 | 34 |
| 22 | Splitting Methods for Convex Clustering. Journal of Computational and Graphical Statistics, 2015, 24, 994-1013. | 1.7 | 131 |
| 23 | Polya′s Random Walk Theorem Revisited. American Mathematical Monthly, 2015, 122, 1005. | 0.3 | 0 |
| 24 | Path following in the exact penalty method of convex programming. Computational Optimization and Applications, 2015, 61, 609-634. | 1.6 | 4 |
| 25 | Convex Clustering: An Attractive Alternative to Hierarchical Clustering. PLoS Computational Biology, 2015, 11, e1004228. | 3.2 | 34 |
| 26 | Matrix completion discriminant analysis. Computational Statistics and Data Analysis, 2015, 92, 115-125. | 1.2 | 8 |
| 27 | A multivariate Bernoulli model to predict DNasel hypersensitivity status from haplotype data. Bioinformatics, 2015, 31, 3514-3521. | 4.1 | 2 |
| 28 | Distance majorization and its applications. Mathematical Programming, 2014, 146, 409-436. | 2.4 | 22 |
| 29 | MM algorithms for geometric and signomial programming. Mathematical Programming, 2014, 143, 339-356. | 2.4 | 35 |
| 30 | Next-Generation Statistical Genetics: Modeling, Penalization, and Optimization in High-Dimensional Data. Annual Review of Statistics and Its Application, 2014, 1, 279-300. | 7.0 | 40 |
| 31 | A Brief Survey of Modern Optimization for Statisticians. International Statistical Review, 2014, 82, 46-70. | 1.9 | 31 |
| 32 | Hadamard's Determinant Inequality. American Mathematical Monthly, 2014, 121, 258. | 0.3 | 2 |
| 33 | A Look at the Generalized Heron Problem through the Lens of Majorization-Minimization. American Mathematical Monthly, 2014, 121, 95. | 0.3 | 7 |
| 34 | Stable estimation of a covariance matrix guided by nuclear norm penalties. Computational Statistics and Data Analysis, 2014, 80, 117-128. | 1.2 | 31 |
| 35 | Fast genome-wide pedigree quantitative trait loci analysis using MENDEL. BMC Proceedings, 2014, 8, S93. | 1.6 | 5 |
| 36 | Fast spatial ancestry via flexible allele frequency surfaces. Bioinformatics, 2014, 30, 2915-2922. | 4.1 | 16 |

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| 37 | A Look at the Generalized Heron Problem through the Lens of Majorization-Minimization. American Mathematical Monthly, 2014, 121, 95-108. | 0.3 | 1 |
| 38 | Imaging genetics via sparse canonical correlation analysis., 2013, 2013, 740-743. | | 40 |
| 39 | Genotype imputation via matrix completion. Genome Research, 2013, 23, 509-518. | 5.5 | 50 |
| 40 | The MM Algorithm. Springer Texts in Statistics, 2013, , 185-219. | 6.7 | 9 |
| 41 | Feasibility and Duality. Springer Texts in Statistics, 2013, , 383-414. | 6.7 | 0 |
| 42 | Penalty and Barrier Methods. Springer Texts in Statistics, 2013, , 313-339. | 6.7 | 0 |
| 43 | Mendel: the Swiss army knife of genetic analysis programs. Bioinformatics, 2013, 29, 1568-1570. | 4.1 | 104 |
| 44 | Mendel-GPU: haplotyping and genotype imputation on graphics processing units. Bioinformatics, 2012, 28, 2979-2980. | 4.1 | 11 |
| 45 | Quantitative Trait Loci Association Mapping by Imputation of Strain Origins in Multifounder Crosses. Genetics, 2012, 190, 459-473. | 2.9 | 8 |
| 46 | A quasi-Newton acceleration for high-dimensional optimization algorithms. Statistics and Computing, 2011, 21, 261-273. | 1.5 | 127 |
| 47 | Linkage analysis without defined pedigrees. Genetic Epidemiology, 2011, 35, 360-370. | 1.3 | 40 |
| 48 | Stability selection for genome-wide association. Genetic Epidemiology, 2011, 35, 722-728. | 1.3 | 51 |
| 49 | A fast procedure for calculating importance weights in bootstrap sampling. Computational Statistics and Data Analysis, 2011, 55, 26-33. | 1.2 | 2 |
| 50 | 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. | 0.3 | 8 |
| 51 | Multicategory vertex discriminant analysis for high-dimensional data. Annals of Applied Statistics, 2010, 4, . | 1.1 | 19 |
| 52 | The MM Alternative to EM. Statistical Science, 2010, 25, . | 2.8 | 68 |
| 53 | Graphics Processing Units and High-Dimensional Optimization. Statistical Science, 2010, 25, 311-324. | 2.8 | 31 |
| 54 | Prioritizing GWAS Results: A Review of Statistical Methods and Recommendations for Their Application. American Journal of Human Genetics, 2010, 86, 6-22. | 6.2 | 531 |

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| 55 | Modeling maternalâ€offspring geneâ€gene interactions: the extendedâ€MFG test. Genetic Epidemiology, 2010, 34, 512-521. | 1.3 | 8 |
| 56 | On the Bumpy Road to the Dominant Mode. Scandinavian Journal of Statistics, 2010, 37, 612-631. | 1.4 | 30 |
| 57 | A Poisson model for random multigraphs. Bioinformatics, 2010, 26, 2004-2011. | 4.1 | 25 |
| 58 | Association screening of common and rare genetic variants by penalized regression. Bioinformatics, 2010, 26, 2375-2382. | 4.1 | 120 |
| 59 | MM Algorithms for Some Discrete Multivariate Distributions. Journal of Computational and Graphical Statistics, 2010, 19, 645-665. | 1.7 | 48 |
| 60 | Numerical Analysis for Statisticians. Statistics and Computing, 2010, , . | 0.2 | 202 |
| 61 | Accurate Stochastic Simulation via the Step Anticipation <i>i, </i> -Leaping (SAL) Algorithm. Journal of Computational Biology, 2009, 16, 1195-1208. | 1.6 | 11 |
| 62 | Genome-wide association analysis by lasso penalized logistic regression. Bioinformatics, 2009, 25, 714-721. | 4.1 | 639 |
| 63 | Fast model-based estimation of ancestry in unrelated individuals. Genome Research, 2009, 19, 1655-1664. | 5.5 | 6,588 |
| 64 | A heterozygote–homozygote test of Hardy–Weinberg equilibrium. European Journal of Human Genetics, 2009, 17, 1495-1500. | 2.8 | 9 |
| 65 | Estimating Ethnic Admixture from Pedigree Data. American Journal of Human Genetics, 2008, 82, 748-755. | 6.2 | 6 |
| 66 | Bayesian Gaussian Mixture Models for High-Density Genotyping Arrays. Journal of the American Statistical Association, 2008, 103, 89-100. | 3.1 | 7 |
| 67 | Penalized estimation of haplotype frequencies. Bioinformatics, 2008, 24, 1596-1602. | 4.1 | 16 |
| 68 | Efficiency of Protein Production from mRNA. Journal of Statistical Theory and Practice, 2008, 2, 173-182. | 0.5 | 2 |
| 69 | Mixed Effects Models for Quantitative Trait Loci Mapping With Inbred Strains. Genetics, 2008, 180, 1743-1761. | 2.9 | 7 |
| 70 | An MM Algorithm for Multicategory Vertex Discriminant Analysis. Journal of Computational and Graphical Statistics, 2008, 17, 527-544. | 1.7 | 29 |
| 71 | Coordinate descent algorithms for lasso penalized regression. Annals of Applied Statistics, 2008, 2, . | 1.1 | 533 |
| 72 | A dictionary model for haplotyping, genotype calling, and association testing. Genetic Epidemiology, 2007, 31, 672-683. | 1.3 | 8 |

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| 73 | Estimation for the Simple Linear Boolean Model. Methodology and Computing in Applied Probability, 2006, 8, 559-571. | 1.2 | 3 |
| 74 | Variance component models for X-linked QTLs. Genetic Epidemiology, 2006, 30, 380-383. | 1.3 | 10 |
| 75 | Association testing with Mendel. Genetic Epidemiology, 2005, 29, 36-50. | 1.3 | 57 |
| 76 | Association Testing in a Linked Region Using Large Pedigrees. American Journal of Human Genetics, 2005, 76, 538-542. | 6.2 | 25 |
| 77 | The Pedigree Trimming Problem. Human Heredity, 2004, 58, 108-111. | 0.8 | 9 |
| 78 | Computational Statistics and Optimization Theory at UCLA. American Statistician, 2004, 58, 9-11. | 1.6 | 9 |
| 79 | A Tutorial on MM Algorithms. American Statistician, 2004, 58, 30-37. | 1.6 | 1,257 |
| 80 | Mathematical and Statistical Methods for Genetic Analysis. Statistics in the Health Sciences, 2002, , . | 0.2 | 221 |
| 81 | Computing Estimates in the Proportional Odds Model. Annals of the Institute of Statistical Mathematics, 2002, 54, 155-168. | 0.8 | 19 |
| 82 | Detection and Integration of Genotyping Errors in Statistical Genetics. American Journal of Human Genetics, 2002, 70, 496-508. | 6.2 | 317 |
| 83 | Optimization Transfer Using Surrogate Objective Functions. Journal of Computational and Graphical Statistics, 2000, 9, 1-20. | 1.7 | 396 |
| 84 | Gamete-Competition Models. American Journal of Human Genetics, 2000, 66, 1168-1172. | 6.2 | 53 |
| 85 | EM algorithms without missing data. Statistical Methods in Medical Research, 1997, 6, 38-54. | 1.5 | 68 |
| 86 | Haplotyping Algorithms. , 1996, , 89-110. | | 29 |
| 87 | Normal/Independent Distributions and Their Applications in Robust Regression. Journal of Computational and Graphical Statistics, 1993, 2, 175-198. | 1.7 | 181 |
| 88 | Programs for pedigree analysis: Mendel, Fisher, and dGene. Genetic Epidemiology, 1988, 5, 471-472. | 1.3 | 562 |
| 89 | Localization of an ataxia-telangiectasia gene to chromosome 11q22–23. Nature, 1988, 336, 577-580. | 27.8 | 677 |
| 90 | A Theoretical Study of Some Maximum Likelihood Algorithms for Emission and Transmission Tomography. IEEE Transactions on Medical Imaging, 1987, 6, 106-114. | 8.9 | 274 |

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| 91 | Cohabitation, convergence, and environmental covariances. American Journal of Medical Genetics Part A, 1986, 24, 483-491. | 2.4 | 30 |
| 92 | Sex differences in recombination fraction estimates and their effect on ordering of chromosome 11 markers. Genetic Epidemiology, 1986, 3, 185-190. | 1.3 | 1 |
| 93 | 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 |
| 94 | 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 |
| 95 | Central limit theorems of pedigrees. Journal of Mathematical Biology, 1978, 6, 59-66. | 1.9 | 64 |
| 96 | Extensions to pedigree analysis III. Variance components by the scoring method. Annals of Human Genetics, 1976, 39, 485-491. | 0.8 | 409 |
| 97 | Genomewide Motif Identification Using a Dictionary Model. , 0, , 157-172. | | 0 |