Carey E Priebe

List of Publications by Year
in descending order

130 papers	3,502 citations	159573 30 h-index	189881 50 g-index
136 all docs	136 docs citations	136 times ranked	2708 citing authors

#	ARTICLE	IF	CITATIONS
1	The complete connectome of a learning and memory centre in an insect brain. Nature, 2017, 548, 175-182.	27.8	424
2	Scan Statistics on Enron Graphs. Computational and Mathematical Organization Theory, 2005, 11, 229-247.	2.0	226
3	Discovery of Brainwide Neural-Behavioral Maps via Multiscale Unsupervised Structure Learning. Science, 2014, 344, 386-392.	12.6	226
4	COMPARATIVE EVALUATION OF PATTERN RECOGNITION TECHNIQUES FOR DETECTION OF MICROCALCIFICATIONS IN MAMMOGRAPHY. International Journal of Pattern Recognition and Artificial Intelligence, 1993, 07, 1417-1436.	1.2	131
5	A Consistent Adjacency Spectral Embedding for Stochastic Blockmodel Graphs. Journal of the American Statistical Association, 2012, 107, 1119-1128.	3.1	131
6	Fast Approximate Quadratic Programming for Graph Matching. PLoS ONE, 2015, 10, e0121002.	2.5	83
7	Adaptive Mixtures. Journal of the American Statistical Association, 1994, 89, 796-806.	3.1	80
8	Graph Matching: Relax at Your Own Risk. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 60-73.	13.9	76
9	Community Detection and Classification in Hierarchical Stochastic Blockmodels. IEEE Transactions on Network Science and Engineering, 2017, 4, 13-26.	6.4	73
10	Locality Statistics for Anomaly Detection in Time Series of Graphs. IEEE Transactions on Signal Processing, 2014, 62, 703-717.	5.3	67
11	Adaptive Mixtures. Journal of the American Statistical Association, 1994, 89, 796.	3.1	57
12	The application of fractal analysis to mammographic tissue classification. Cancer Letters, 1994, 77, 183-189.	7.2	52
13	Consistent estimation of mixture complexity. Annals of Statistics, 2001, 29, 1281.	2.6	52
14	An integrative framework for sensor-based measurement of teamwork in healthcare. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 11-18.	4.4	52
15	Consistent Latent Position Estimation and Vertex Classification for Random Dot Product Graphs. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 48-57.	13.9	51
16	Adaptive mixture density estimation. Pattern Recognition, 1993, 26, 771-785.	8.1	48
17	Collaborative computational anatomy: An MRI morphometry study of the human brain via diffeomorphic metric mapping. Human Brain Mapping, 2009, 30, 2132-2141.	3.6	48
18	Consistent Adjacency-Spectral Partitioning for the Stochastic Block Model When the Model Parameters Are Unknown. SIAM Journal on Matrix Analysis and Applications, 2013, 34, 23-39.	1.4	48

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19	A Semiparametric Two-Sample Hypothesis Testing Problem for Random Graphs. Journal of Computational and Graphical Statistics, 2017, 26, 344-354.	1.7	48
20	Perfect clustering for stochastic blockmodel graphs via adjacency spectral embedding. Electronic Journal of Statistics, 2014, 8, .	0.7	44
21	Universally consistent vertex classification for latent positions graphs. Annals of Statistics, 2013, 41, .	2.6	43
22	Limit theorems for eigenvectors of the normalized Laplacian for random graphs. Annals of Statistics, 2018, 46, .	2.6	41
23	The two-to-infinity norm and singular subspace geometry with applications to high-dimensional statistics. Annals of Statistics, 2019, 47, .	2.6	41
24	On a two-truths phenomenon in spectral graph clustering. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5995-6000.	7.1	40
25	The out-of-sample problem for classical multidimensional scaling. Computational Statistics and Data Analysis, 2008, 52, 4635-4642.	1.2	39
26	Anomaly Detection in Time Series of Graphs using Fusion of Graph Invariants. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 67-75.	10.8	39
27	Classification Using Class Cover Catch Digraphs. Journal of Classification, 2003, 20, 3-23.	2.2	37
28	Seeded graph matching. Pattern Recognition, 2019, 87, 203-215.	8.1	37
29	Computing Scan Statistic p Values Using Importance Sampling, With Applications to Genetics and Medical Image Analysis. Journal of Computational and Graphical Statistics, 2001, 10, 296-328.	1.7	36
30	A Central Limit Theorem for an Omnibus Embedding of Multiple Random Dot Product Graphs. , 2017, , .		36
31	The Effect of Model Misspecification on Semi-Supervised Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 2093-2103.	13.9	33
32	Variability and heritability of mouse brain structure: Microscopic MRI atlases and connectomes for diverse strains. NeuroImage, 2020, 222, 117274.	4.2	33
33	Adaptive mixtures: Recursive nonparametric pattern recognition. Pattern Recognition, 1991, 24, 1197-1209.	8.1	32
34	Graph Classification Using Signal-Subgraphs: Applications in Statistical Connectomics. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1539-1551.	13.9	31
35	Alternating kernel and mixture density estimates. Computational Statistics and Data Analysis, 2000, 35, 43-65.	1.2	28
36	Semi-supervised k-means++. Journal of Statistical Computation and Simulation, 2017, 87, 2597-2608.	1.2	27

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37	Characterizing the scale dimension of a high-dimensional classification problem. Pattern Recognition, 2003, 36, 45-60.	8.1	26
38	Statistical Inference on Errorfully Observed Graphs. Journal of Computational and Graphical Statistics, 2015, 24, 930-953.	1.7	25
39	Sensor-based measurement of critical care nursing workload: Unobtrusive measures of nursing activity complement traditional task and patient level indicators of workload to predict perceived exertion. PLoS ONE, 2018, 13, e0204819.	2.5	25
40	Joint Embedding of Graphs. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1324-1336.	13.9	25
41	On the distribution of the domination number for random class cover catch digraphs. Statistics and Probability Letters, 2001, 55, 239-246.	0.7	24
42	Integrated sensing and processing decision trees. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 699-708.	13.9	24
43	Generalized canonical correlation analysis for classification. Journal of Multivariate Analysis, 2014, 130, 310-322.	1.0	20
44	Spectral clustering for divide-and-conquer graph matching. Parallel Computing, 2015, 47, 70-87.	2.1	19
45	A method for detecting microcalcifications in Digital Mammograms. Journal of Digital Imaging, 1997, 10, 136-139.	2.9	18
46	Semisupervised learning from dissimilarity data. Computational Statistics and Data Analysis, 2008, 52, 4643-4657.	1.2	18
47	Maximum Lq-Likelihood Estimation via the Expectation-Maximization Algorithm: A Robust Estimation of Mixture Models. Journal of the American Statistical Association, 2013, 108, 914-928.	3.1	18
48	An automated images-to-graphs framework for high resolution connectomics. Frontiers in Neuroinformatics, 2015, 9, 20.	2.5	18
49	An initial assessment of discriminant surface complexity for power law features. Simulation, 1992, 58, 311-318.	1.8	17
50	Generalizing the mann-whitney-wilcoxon statistic. Journal of Nonparametric Statistics, 2000, 12, 661-682.	0.9	17
51	A data-adaptive methodology for finding an optimal weighted generalized Mann–Whitney–Wilcoxon statistic. Computational Statistics and Data Analysis, 2007, 51, 4337-4353.	1.2	17
52	Class cover catch digraphs for latent class discovery in gene expression monitoring by DNA microarrays. Computational Statistics and Data Analysis, 2003, 43, 621-632.	1.2	16
53	Matched Filters for Noisy Induced Subgraph Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	13.9	16
54	Discovering and deciphering relationships across disparate data modalities. ELife, 2019, 8, .	6.0	16

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55	The use of domination number of a random proximity catch digraph for testing spatial patterns of segregation and association. Statistics and Probability Letters, 2005, 73, 37-50.	0.7	15
56	Statistical inference on attributed random graphs: Fusion of graph features and content: An experiment on time series of Enron graphs. Computational Statistics and Data Analysis, 2010, 54, 1766-1776.	1.2	15
57	Statistical Inference on Random Graphs: Comparative Power Analyses via Monte Carlo. Journal of Computational and Graphical Statistics, 2011, 20, 395-416.	1.7	15
58	Connectome smoothing via low-rank approximations. IEEE Transactions on Medical Imaging, 2019, 38, 1446-1456.	8.9	15
59	A Spatial Scan Statistic for Stochastic Scan Partitions. Journal of the American Statistical Association, 1997, 92, 1476-1484.	3.1	14
60	Segmenting magnetic resonance images via hierarchical mixture modelling. Computational Statistics and Data Analysis, 2006, 50, 551-567.	1.2	14
61	Connectal coding: discovering the structures linking cognitive phenotypes to individual histories. Current Opinion in Neurobiology, 2019, 55, 199-212.	4.2	14
62	Simultaneous Dimensionality and Complexity Model Selection for Spectral Graph Clustering. Journal of Computational and Graphical Statistics, 2021, 30, 422-441.	1.7	14
63	An analysis of local feature extraction in digital mammography. Pattern Recognition, 1997, 30, 1547-1554.	8.1	13
64	Mixture structure analysis using the Akaike Information Criterion and the bootstrap. Statistics and Computing, 1998, 8, 177-188.	1.5	13
65	A new family of random graphs for testing spatial segregation. Canadian Journal of Statistics, 2007, 35, 27-50.	0.9	13
66	Iterative Denoising for Cross-Corpus Discovery. , 2004, , 381-392.		13
67	A Statistical Interpretation of Spectral Embedding: The Generalised Random Dot Product Graph. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2022, 84, 1446-1473.	2.2	13
68	A weighted generalization of the Mannâ€"Whitneyâ€"Wilcoxon statistic. Journal of Statistical Planning and Inference, 2002, 102, 441-466.	0.6	12
69	Relative density of the random r-factor proximity catch digraph for testing spatial patterns of segregation and association. Computational Statistics and Data Analysis, 2006, 50, 1925-1964.	1.2	12
70	A new family of proximity graphs: Class cover catch digraphs. Discrete Applied Mathematics, 2006, 154, 1975-1982.	0.9	12
71	Validation of Alternating Kernel Mixture Method: Application to Tissue Segmentation of Cortical and Subcortical Structures. Journal of Biomedicine and Biotechnology, 2008, 2008, 1-8.	3.0	12
72	Statistical inference on attributed random graphs: Fusion of graph features and content. Computational Statistics and Data Analysis, 2010, 54, 1777-1790.	1.2	12

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73	A comparative power analysis of the maximum degree and size invariants for random graph inference. Journal of Statistical Planning and Inference, 2011, 141, 1041-1046.	0.6	12
74	Manifold matching: Joint optimization of fidelity and commensurability. Brazilian Journal of Probability and Statistics, 2013, 27, .	0.4	12
75	A joint graph inference case study: the *C. elegans* chemical and electrical connectomes. Worm, 2016, 5, e1142041.	1.0	12
76	On spectral embedding performance and elucidating network structure in stochastic blockmodel graphs. Network Science, 2019, 7, 269-291.	1.0	12
77	Nonhomogeneity Analysis Using Borrowed Strength. Journal of the American Statistical Association, 1996, 91, 1497-1503.	3.1	11
78	Generalized canonical correlation analysis for disparate data fusion. Pattern Recognition Letters, 2013, 34, 194-200.	4.2	11
79	Empirical Bayes estimation for the stochastic blockmodel. Electronic Journal of Statistics, 2016, 10, .	0.7	10
80	A Hierarchical Methodology for Class Detection Problems with Skewed Priors. Journal of Classification, 2005, 22, 17-48.	2.2	9
81	The reset disambiguation policy for navigating stochastic obstacle fields. Naval Research Logistics, 2011, 58, 389-399.	2.2	9
82	Manifold matching using shortest-path distance and joint neighborhood selection. Pattern Recognition Letters, 2017, 92, 41-48.	4.2	9
83	Network dependence testing via diffusion maps and distance-based correlations. Biometrika, 2019, 106, 857-873.	2.4	9
84	On the Limiting Distribution of a Graph Scan Statistic. Communications in Statistics - Theory and Methods, 2012, 41, 1151-1170.	1.0	8
85	Attribute Fusion in a Latent Process Model for Time Series of Graphs. IEEE Transactions on Signal Processing, 2013, 61, 1721-1732.	5.3	8
86	On Estimation and Inference in Latent Structure Random Graphs. Statistical Science, 2021, 36, .	2.8	8
87	Efficiency investigation of manifold matching for text document classification. Pattern Recognition Letters, 2013, 34, 1263-1269.	4.2	7
88	Robust Vertex Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 578-590.	13.9	7
89	The Adaptive Kernel Neural Network. Mathematical and Computer Modelling, 1990, 14, 328-333.	2.0	6
90	Fusion and inference from multiple data sources in a commensurate space. Statistical Analysis and Data Mining, 2012, 5, 187-193.	2.8	6

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91	Shuffled Graph Classification: Theory and Connectome Applications. Journal of Classification, 2015, 32, 3-20.	2.2	6
92	Vertex nomination via seeded graph matching. Statistical Analysis and Data Mining, 2020, 13, 229-244.	2.8	6
93	Sparse Representation Classification Beyond â„"1 Minimization and the Subspace Assumption. IEEE Transactions on Information Theory, 2020, 66, 5061-5071.	2.4	6
94	A Spatial Scan Statistic for Stochastic Scan Partitions. Journal of the American Statistical Association, 1997, 92, 1476.	3.1	6
95	Spatial Scan Density Estimates. Technometrics, 2001, 43, 73-83.	1.9	5
96	On the distribution of the domination number of a new family of parametrized random digraphs1. Model Assisted Statistics and Applications, 2006, 1, 231-255.	0.3	5
97	Dimensionality Reduction on the Cartesian Product of Embeddings of Multiple Dissimilarity Matrices. Journal of Classification, 2010, 27, 307-321.	2.2	5
98	Anomaly detection for random graphs using distributions of vertex invariants. , 2011, , .		5
99	Optimizing the Quantity/Quality Trade-Off in Connectome Inference. Communications in Statistics - Theory and Methods, 2013, 42, 3455-3462.	1.0	5
100	knor. , 2017, , .		5
101	Alignment strength and correlation for graphs. Pattern Recognition Letters, 2019, 125, 295-302.	4.2	5
102	Neuronal classification from network connectivity via adjacency spectral embedding. Network Neuroscience, 2021, 5, 1-22.	2.6	5
103	Semiparametric nonhomogeneity analysis. Journal of Statistical Planning and Inference, 1997, 59, 45-60.	0.6	4
104	Nonhomogeneity Analysis Using Borrowed Strength. Journal of the American Statistical Association, 1996, 91, 1497.	3.1	4
105	Geodesic Forests. , 2020, , .		4
106	A VISUALIZATION FRAMEWORK FOR THE ANALYSIS OF HYPERDIMENSIONAL DATA. International Journal of Image and Graphics, 2002, 02, 145-161.	1.5	3
107	Iterative Denoising. Computational Statistics, 2008, 23, 497-517.	1.5	3
108	Attribute fusion in a latent process model for time series of graphs. , 2011, , .		3

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109	Bayesian Vertex Nomination Using Content and Context. Wiley Interdisciplinary Reviews: Computational Statistics, 2015, 7, 400-416.	3.9	3
110	Fast Embedding for JOFC Using the Raw Stress Criterion. Journal of Computational and Graphical Statistics, 2017, 26, 786-802.	1.7	3
111	Maximum Likelihood Estimation and Graph Matching in Errorfully Observed Networks. Journal of Computational and Graphical Statistics, 2021, 30, 1111-1123.	1.7	3
112	Valid twoâ€sample graph testing via optimal transport Procrustes and multiscale graph correlation with applications in connectomics. Stat, 2022, 11, e429.	0.4	3
113	Inference for Multiple Heterogeneous Networks with a Common Invariant Subspace. Journal of Machine Learning Research, 2021, 22, 1-49.	62.4	3
114	Multiplex graph matching matched filters. Applied Network Science, 2022, 7, .	1.5	3
115	Adaptive Methods for Spatial Scan Analysis via Semiparametric Mixture Models. Journal of Computational and Graphical Statistics, 2003, 12, 332-353.	1.7	2
116	On the Incommensurability Phenomenon. Journal of Classification, 2016, 33, 185-209.	2.2	2
117	Multiplex graph matching matched filters. , 2019, , .		2
118	Mental State Classification Using Multi-Graph Features. Frontiers in Human Neuroscience, 0, 16, .	2.0	2
119	Fast Algorithms for Classification Using Class Cover Catch Digraphs. Handbook of Statistics, 2005, 24, 331-358.	0.6	1
120	Fisherâ€™s Conditionality Principle in Statistical Pattern Recognition. American Statistician, 2011, 65, 167-169.	1.6	1
121	Spectral graph clustering via the expectation-solution algorithm. Electronic Journal of Statistics, 2022, 16, .	0.7	1
122	<title>Filtered kernel probabilistic neural network</title>. , 1993, 1962, 242.		0
123	<title>Improved texture discrimination and image segmentation with boundary incorporation</title>. , 1995, , .		0
124	<title>Spatial scan density estimates</title>. , 1998, , .		0
125	Application of integrated sensing and processing decision trees for target detection and localization on digital mirror array imagery. Applied Optics, 2006, 45, 3022.	2.1	0
126	On the minimization of concave information functionals for unsupervised classification via decision trees. Statistics and Probability Letters, 2008, 78, 975-984.	0.7	0

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127	Graph Matching between Bipartite and Unipartite Networks: to Collapse, or not to Collapse, that is the Question. IEEE Transactions on Network Science and Engineering, 2021, 8, 1-1.	6.4	0
128	On a complete and sufficient statistic for the correlated Bernoulli random graph model. Electronic Journal of Statistics, 2021, 15, .	0.7	0
129	Vertex Nomination Between Graphs via Spectral Embedding and Quadratic Programming. Journal of Computational and Graphical Statistics, 2022, 31, 1254-1268.	1.7	0
130	Numerical Tolerance for Spectral Decompositions of Random Matrices and Applications to Network Inference. Journal of Computational and Graphical Statistics, 0, , 1-31.	1.7	0