Carey E Priebe

List of Publications by Year
in descending order

130 papers	3,502 citations	159585 30 h-index	189892 50 g-index
136 all docs	136 docs citations	136 times ranked	2708 citing authors

#	ARTICLE	IF	CITATIONS
1	Valid twoâ€sample graph testing via optimal transport Procrustes and multiscale graph correlation with applications in connectomics. Stat, 2022, 11, e429.	0.4	3
2	Vertex Nomination Between Graphs via Spectral Embedding and Quadratic Programming. Journal of Computational and Graphical Statistics, 2022, 31, 1254-1268.	1.7	0
3	Spectral graph clustering via the expectation-solution algorithm. Electronic Journal of Statistics, 2022, 16, .	0.7	1
4	Multiplex graph matching matched filters. Applied Network Science, 2022, 7, .	1.5	3
5	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
6	Simultaneous Dimensionality and Complexity Model Selection for Spectral Graph Clustering. Journal of Computational and Graphical Statistics, 2021, 30, 422-441.	1.7	14
7	Joint Embedding of Graphs. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1324-1336.	13.9	25
8	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
9	On Estimation and Inference in Latent Structure Random Graphs. Statistical Science, 2021, 36, .	2.8	8
10	Maximum Likelihood Estimation and Graph Matching in Errorfully Observed Networks. Journal of Computational and Graphical Statistics, 2021, 30, 1111-1123.	1.7	3
11	Neuronal classification from network connectivity via adjacency spectral embedding. Network Neuroscience, 2021, 5, 1-22.	2.6	5
12	On a complete and sufficient statistic for the correlated Bernoulli random graph model. Electronic Journal of Statistics, 2021, 15, .	0.7	0
13	Inference for Multiple Heterogeneous Networks with a Common Invariant Subspace. Journal of Machine Learning Research, 2021, 22, 1-49.	62.4	3
14	Variability and heritability of mouse brain structure: Microscopic MRI atlases and connectomes for diverse strains. NeuroImage, 2020, 222, 117274.	4.2	33
15	Vertex nomination via seeded graph matching. Statistical Analysis and Data Mining, 2020, 13, 229-244.	2.8	6
16	Sparse Representation Classification Beyond â„"1 Minimization and the Subspace Assumption. IEEE Transactions on Information Theory, 2020, 66, 5061-5071.	2.4	6
17	Geodesic Forests. , 2020, , .		4
18	The two-to-infinity norm and singular subspace geometry with applications to high-dimensional statistics. Annals of Statistics, 2019, 47, .	2.6	41

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19	On spectral embedding performance and elucidating network structure in stochastic blockmodel graphs. Network Science, 2019, 7, 269-291.	1.0	12
20	Network dependence testing via diffusion maps and distance-based correlations. Biometrika, 2019, 106, 857-873.	2.4	9
21	Matched Filters for Noisy Induced Subgraph Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	13.9	16
22	Seeded graph matching. Pattern Recognition, 2019, 87, 203-215.	8.1	37
23	Connectal coding: discovering the structures linking cognitive phenotypes to individual histories. Current Opinion in Neurobiology, 2019, 55, 199-212.	4.2	14
24	Alignment strength and correlation for graphs. Pattern Recognition Letters, 2019, 125, 295-302.	4.2	5
25	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
26	Multiplex graph matching matched filters. , 2019, , .		2
27	Connectome smoothing via low-rank approximations. IEEE Transactions on Medical Imaging, 2019, 38, 1446-1456.	8.9	15
28	Discovering and deciphering relationships across disparate data modalities. ELife, 2019, 8, .	6.0	16
29	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
30	Limit theorems for eigenvectors of the normalized Laplacian for random graphs. Annals of Statistics, 2018, 46, .	2.6	41
31	A Semiparametric Two-Sample Hypothesis Testing Problem for Random Graphs. Journal of Computational and Graphical Statistics, 2017, 26, 344-354.	1.7	48
32	Community Detection and Classification in Hierarchical Stochastic Blockmodels. IEEE Transactions on Network Science and Engineering, 2017, 4, 13-26.	6.4	73
33	Manifold matching using shortest-path distance and joint neighborhood selection. Pattern Recognition Letters, 2017, 92, 41-48.	4.2	9
34	Fast Embedding for JOFC Using the Raw Stress Criterion. Journal of Computational and Graphical Statistics, 2017, 26, 786-802.	1.7	3
35	Semi-supervised k-means++. Journal of Statistical Computation and Simulation, 2017, 87, 2597-2608.	1.2	27
36	The complete connectome of a learning and memory centre in an insect brain. Nature, 2017, 548, 175-182.	27.8	424

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37	knor. , 2017, , .		5
38	A Central Limit Theorem for an Omnibus Embedding of Multiple Random Dot Product Graphs. , 2017, , .		36
39	Empirical Bayes estimation for the stochastic blockmodel. Electronic Journal of Statistics, 2016, 10, .	0.7	10
40	On the Incommensurability Phenomenon. Journal of Classification, 2016, 33, 185-209.	2.2	2
41	Graph Matching: Relax at Your Own Risk. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 60-73.	13.9	76
42	A joint graph inference case study: the <i>C. elegans</i> chemical and electrical connectomes. Worm, 2016, 5, e1142041.	1.0	12
43	Robust Vertex Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 578-590.	13.9	7
44	Statistical Inference on Errorfully Observed Graphs. Journal of Computational and Graphical Statistics, 2015, 24, 930-953.	1.7	25
45	Bayesian Vertex Nomination Using Content and Context. Wiley Interdisciplinary Reviews: Computational Statistics, 2015, 7, 400-416.	3.9	3
46	Fast Approximate Quadratic Programming for Graph Matching. PLoS ONE, 2015, 10, e0121002.	2.5	83
47	Spectral clustering for divide-and-conquer graph matching. Parallel Computing, 2015, 47, 70-87.	2.1	19
48	Shuffled Graph Classification: Theory and Connectome Applications. Journal of Classification, 2015, 32, 3-20.	2.2	6
49	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
50	An automated images-to-graphs framework for high resolution connectomics. Frontiers in Neuroinformatics, 2015, 9, 20.	2.5	18
51	Discovery of Brainwide Neural-Behavioral Maps via Multiscale Unsupervised Structure Learning. Science, 2014, 344, 386-392.	12.6	226
52	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
53	Locality Statistics for Anomaly Detection in Time Series of Graphs. IEEE Transactions on Signal Processing, 2014, 62, 703-717.	5.3	67
54	Generalized canonical correlation analysis for classification. Journal of Multivariate Analysis, 2014, 130, 310-322.	1.0	20

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55	Perfect clustering for stochastic blockmodel graphs via adjacency spectral embedding. Electronic Journal of Statistics, 2014, 8, .	0.7	44
56	Attribute Fusion in a Latent Process Model for Time Series of Graphs. IEEE Transactions on Signal Processing, 2013, 61, 1721-1732.	5.3	8
57	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
58	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
59	Efficiency investigation of manifold matching for text document classification. Pattern Recognition Letters, 2013, 34, 1263-1269.	4.2	7
60	Maximum L_q-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
61	Generalized canonical correlation analysis for disparate data fusion. Pattern Recognition Letters, 2013, 34, 194-200.	4.2	11
62	Optimizing the Quantity/Quality Trade-Off in Connectome Inference. Communications in Statistics - Theory and Methods, 2013, 42, 3455-3462.	1.0	5
63	Graph Classification Using Signal-Subgraphs: Applications in Statistical Connectomics. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1539-1551.	13.9	31
64	Universally consistent vertex classification for latent positions graphs. Annals of Statistics, 2013, 41, .	2.6	43
65	Manifold matching: Joint optimization of fidelity and commensurability. Brazilian Journal of Probability and Statistics, 2013, 27, .	0.4	12
66	On the Limiting Distribution of a Graph Scan Statistic. Communications in Statistics - Theory and Methods, 2012, 41, 1151-1170.	1.0	8
67	A Consistent Adjacency Spectral Embedding for Stochastic Blockmodel Graphs. Journal of the American Statistical Association, 2012, 107, 1119-1128.	3.1	131
68	Fusion and inference from multiple data sources in a commensurate space. Statistical Analysis and Data Mining, 2012, 5, 187-193.	2.8	6
69	Anomaly detection for random graphs using distributions of vertex invariants. , 2011, , .		5
70	Attribute fusion in a latent process model for time series of graphs. , 2011, , .		3
71	The Effect of Model Misspecification on Semi-Supervised Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 2093-2103.	13.9	33
72	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

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73	The reset disambiguation policy for navigating stochastic obstacle fields. Naval Research Logistics, 2011, 58, 389-399.	2.2	9
74	Fisher's Conditionality Principle in Statistical Pattern Recognition. American Statistician, 2011, 65, 167-169.	1.6	1
75	Statistical Inference on Random Graphs: Comparative Power Analyses via Monte Carlo. Journal of Computational and Graphical Statistics, 2011, 20, 395-416.	1.7	15
76	Dimensionality Reduction on the Cartesian Product of Embeddings of Multiple Dissimilarity Matrices. Journal of Classification, 2010, 27, 307-321.	2.2	5
77	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
78	Statistical inference on attributed random graphs: Fusion of graph features and content. Computational Statistics and Data Analysis, 2010, 54, 1777-1790.	1.2	12
79	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
80	Iterative Denoising. Computational Statistics, 2008, 23, 497-517.	1.5	3
81	Semisupervised learning from dissimilarity data. Computational Statistics and Data Analysis, 2008, 52, 4643-4657.	1.2	18
82	The out-of-sample problem for classical multidimensional scaling. Computational Statistics and Data Analysis, 2008, 52, 4635-4642.	1.2	39
83	On the minimization of concave information functionals for unsupervised classification via decision trees. Statistics and Probability Letters, 2008, 78, 975-984.	0.7	0
84	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
85	A new family of random graphs for testing spatial segregation. Canadian Journal of Statistics, 2007, 35, 27-50.	0.9	13
86	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
87	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
88	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
89	Segmenting magnetic resonance images via hierarchical mixture modelling. Computational Statistics and Data Analysis, 2006, 50, 551-567.	1.2	14
90	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

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91	A new family of proximity graphs: Class cover catch digraphs. Discrete Applied Mathematics, 2006, 154, 1975-1982.	0.9	12
92	A Hierarchical Methodology for Class Detection Problems with Skewed Priors. Journal of Classification, 2005, 22, 17-48.	2.2	9
93	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
94	Scan Statistics on Enron Graphs. Computational and Mathematical Organization Theory, 2005, 11, 229-247.	2.0	226
95	Fast Algorithms for Classification Using Class Cover Catch Digraphs. Handbook of Statistics, 2005, 24, 331-358.	0.6	1
96	Integrated sensing and processing decision trees. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 699-708.	13.9	24
97	Iterative Denoising for Cross-Corpus Discovery. , 2004, , 381-392.		13
98	Classification Using Class Cover Catch Digraphs. Journal of Classification, 2003, 20, 3-23.	2.2	37
99	Characterizing the scale dimension of a high-dimensional classification problem. Pattern Recognition, 2003, 36, 45-60.	8.1	26
100	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
101	Adaptive Methods for Spatial Scan Analysis via Semiparametric Mixture Models. Journal of Computational and Graphical Statistics, 2003, 12, 332-353.	1.7	2
102	A VISUALIZATION FRAMEWORK FOR THE ANALYSIS OF HYPERDIMENSIONAL DATA. International Journal of Image and Graphics, 2002, 02, 145-161.	1.5	3
103	A weighted generalization of the Mann–Whitney–Wilcoxon statistic. Journal of Statistical Planning and Inference, 2002, 102, 441-466.	0.6	12
104	Computing Scan Statistic<i>p</i>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
105	Consistent estimation of mixture complexity. Annals of Statistics, 2001, 29, 1281.	2.6	52
106	On the distribution of the domination number for random class cover catch digraphs. Statistics and Probability Letters, 2001, 55, 239-246.	0.7	24
107	Spatial Scan Density Estimates. Technometrics, 2001, 43, 73-83.	1.9	5
108	Generalizing the mann-whitney-wilcoxon statistic. Journal of Nonparametric Statistics, 2000, 12, 661-682.	0.9	17

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109	Alternating kernel and mixture density estimates. Computational Statistics and Data Analysis, 2000, 35, 43-65.	1.2	28
110	Mixture structure analysis using the Akaike Information Criterion and the bootstrap. Statistics and Computing, 1998, 8, 177-188.	1.5	13
111	<title>Spatial scan density estimates</title>. , 1998, , .		0
112	A Spatial Scan Statistic for Stochastic Scan Partitions. Journal of the American Statistical Association, 1997, 92, 1476-1484.	3.1	14
113	A method for detecting microcalcifications in Digital Mammograms. Journal of Digital Imaging, 1997, 10, 136-139.	2.9	18
114	Semiparametric nonhomogeneity analysis. Journal of Statistical Planning and Inference, 1997, 59, 45-60.	0.6	4
115	An analysis of local feature extraction in digital mammography. Pattern Recognition, 1997, 30, 1547-1554.	8.1	13
116	A Spatial Scan Statistic for Stochastic Scan Partitions. Journal of the American Statistical Association, 1997, 92, 1476.	3.1	6
117	Nonhomogeneity Analysis Using Borrowed Strength. Journal of the American Statistical Association, 1996, 91, 1497-1503.	3.1	11
118	Nonhomogeneity Analysis Using Borrowed Strength. Journal of the American Statistical Association, 1996, 91, 1497.	3.1	4
119	<title>Improved texture discrimination and image segmentation with boundary incorporation</title>. , 1995, , .		0
120	Adaptive Mixtures. Journal of the American Statistical Association, 1994, 89, 796-806.	3.1	80
121	The application of fractal analysis to mammographic tissue classification. Cancer Letters, 1994, 77, 183-189.	7.2	52
122	Adaptive Mixtures. Journal of the American Statistical Association, 1994, 89, 796.	3.1	57
123	Adaptive mixture density estimation. Pattern Recognition, 1993, 26, 771-785.	8.1	48
124	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
125	<title>Filtered kernel probabilistic neural network</title>. , 1993, 1962, 242.		0
126	An initial assessment of discriminant surface complexity for power law features. Simulation, 1992, 58, 311-318.	1.8	17

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127	Adaptive mixtures: Recursive nonparametric pattern recognition. Pattern Recognition, 1991, 24, 1197-1209.	8.1	32
128	The Adaptive Kernel Neural Network. Mathematical and Computer Modelling, 1990, 14, 328-333.	2.0	6
129	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
130	Mental State Classification Using Multi-Graph Features. Frontiers in Human Neuroscience, 0, 16, .	2.0	2