Douglas Steinley

List of Publications by Year
in descending order

84 papers	3,450 citations	218677 26 h-index	149698 56 g-index
87 all docs	87 docs citations	87 times ranked	3292 citing authors

#	Article	IF	Citations
1	A modified approach to fitting relative importance networks.. Psychological Methods, 2024, 29, 1-20.	3.5	2
2	A variable neighborhood search heuristic for nonnegative matrix factorization with application to microarray data. Optimization Letters, 2022, 16, 153-174.	1.6	0
3	Combinatorial Optimization of Clustering Decisions: An Approach to Refine Psychiatric Diagnoses. Multivariate Behavioral Research, 2021, 56, 57-69.	3.1	1
4	Deterministic blockmodelling of signed and twoâ€mode networks: A tutorial with software and psychological examples. British Journal of Mathematical and Statistical Psychology, 2021, 74, 34-63.	1.4	5
5	Evidence of Inflated Prediction Performance: A Commentary on Machine Learning and Suicide Research. Clinical Psychological Science, 2021, 9, 129-134.	4.0	32
6	Recent Advances in (Graphical) Network Models. Multivariate Behavioral Research, 2021, 56, 171-174.	3.1	1
7	On Fixed Marginal Distributions and Psychometric Network Models. Multivariate Behavioral Research, 2021, 56, 329-335.	3.1	1
8	Machine Learning to Classify Suicidal Thoughts and Behaviors: Implementation Within the Common Data Elements Used by the Military Suicide Research Consortium. Clinical Psychological Science, 2021, 9, 467-481.	4.0	7
9	A comparison of 71 binary similarity coefficients: The effect of base rates. PLoS ONE, 2021, 16, e0247751.	2.5	24
10	Ising formulations of some graph-theoretic problems in psychological research: Models and methods. Journal of Mathematical Psychology, 2021, 102, 102536.	1.8	4
11	Disentangling relationships in symptom networks using matrix permutation methods. Psychometrika, 2021, , 1.	2.1	2
12	Modeling Heterogeneous Peer Assortment Effects Using Finite Mixture Exponential Random Graph Models. Psychometrika, 2020, 85, 8-34.	2.1	1
13	Combining diversity and dispersion criteria for anticlustering: A bicriterion approach. British Journal of Mathematical and Statistical Psychology, 2020, 73, 375-396.	1.4	6
14	Using Complete Enumeration to Derive â€œOne-Size-Fits-Allâ€Versus â€œSubgroup-Specificâ€Diagnostic Rules for Substance Use Disorder. Assessment, 2020, 27, 1075-1088.	3.1	2
15	Toward more efficient diagnostic criteria sets and rules: The use of optimization approaches in addiction science. Addictive Behaviors, 2019, 94, 57-64.	3.0	7
16	Using an Iterative Reallocation Partitioning Algorithm to Verify Test Multidimensionality. Journal of Classification, 2019, 36, 397-413.	2.2	0
17	K-medoids inverse regression. Communications in Statistics - Theory and Methods, 2019, 48, 4999-5011.	1.0	4
18	Affinity propagation: An exemplarâ€based tool for clustering in psychological research. British Journal of Mathematical and Statistical Psychology, 2019, 72, 155-182.	1.4	9

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19	On Ising models and algorithms for the construction of symptom networks in psychopathological research.. Psychological Methods, 2019, 24, 735-753.	3.5	16
20	Deriving alternative criteria sets for alcohol use disorders using statistical optimization: Results from the National Survey on Drug Use and Health.. Experimental and Clinical Psychopharmacology, 2019, 27, 283-296.	1.8	3
21	Modeling Between‐Subject Variability in Decision Strategies via Statistical Clustering: A *p*‐Median Approach. Journal of Behavioral Decision Making, 2018, 31, 250-264.	1.7	4
22	A note on the expected value of the Rand index. British Journal of Mathematical and Statistical Psychology, 2018, 71, 287-299.	1.4	9
23	Detecting Clusters/Communities in Social Networks. Multivariate Behavioral Research, 2018, 53, 57-73.	3.1	34
24	Deterministic Blockmodeling of Two-Mode Binary Networks Using a Two-Mode *KL*-Median Heuristic. Journal of Social Structure, 2018, 19, 1-22.	1.3	3
25	Examining the effect of initialization strategies on the performance of Gaussian mixture modeling. Behavior Research Methods, 2017, 49, 282-293.	4.0	42
26	Cluster analysis in empirical OM research: survey and recommendations. International Journal of Operations and Production Management, 2017, 37, 300-320.	5.9	50
27	Gaussian model‐based partitioning using iterated local search. British Journal of Mathematical and Statistical Psychology, 2017, 70, 1-24.	1.4	4
28	A comparison of latent class, K-means, and K-median methods for clustering dichotomous data.. Psychological Methods, 2017, 22, 563-580.	3.5	57
29	A simulated annealing heuristic for maximum correlation core/periphery partitioning of binary networks. PLoS ONE, 2017, 12, e0170448.	2.5	4
30	A method for making inferences in network analysis: Comment on Forbes, Wright, Markon, and Krueger (2017).. Journal of Abnormal Psychology, 2017, 126, 1000-1010.	1.9	43
31	An evaluation of exact methods for the multiple subset maximum cardinality selection problem. British Journal of Mathematical and Statistical Psychology, 2016, 69, 194-213.	1.4	0
32	Local Optima in Mixture Modeling. Multivariate Behavioral Research, 2016, 51, 466-481.	3.1	12
33	Determining optimal diagnostic criteria through chronicity and comorbidity. In Silico Pharmacology, 2016, 4, 1.	3.3	12
34	Searching for Mr. Hyde: A five-factor approach to characterizing "types of drunks" Addiction Research and Theory, 2016, 24, 1-8.	1.9	11
35	Biclustering methods for one-mode asymmetric matrices. Behavior Research Methods, 2016, 48, 487-502.	4.0	6
36	The variance of the adjusted Rand index.. Psychological Methods, 2016, 21, 261-272.	3.5	53

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37	Psychometrics: Combinatorial Data Analysis. , 2015, , 431-435.		2
38	A note on using the adjusted Rand index for link prediction in networks. Social Networks, 2015, 42, 72-79.	2.1	50
39	An Exact Method for Partitioning Dichotomous Items Within the Framework of the Monotone Homogeneity Model. Psychometrika, 2015, 80, 949-967.	2.1	13
40	A Note on Maximizing the Agreement Between Partitions: A Stepwise Optimal Algorithm and Some Properties. Journal of Classification, 2015, 32, 114-126.	2.2	11
41	On the Added Value of Bootstrap Analysis for K-Means Clustering. Journal of Classification, 2015, 32, 268-284.	2.2	20
42	Affinity Propagation and Uncapacitated Facility Location Problems. Journal of Classification, 2015, 32, 443-480.	2.2	5
43	Model selection for minimumâ€diameter partitioning. British Journal of Mathematical and Statistical Psychology, 2014, 67, 471-495.	1.4	8
44	Multiobjective Blockmodeling for Social Network Analysis. Psychometrika, 2013, 78, 498-525.	2.1	22
45	Motivational typologies of drinkers: do enhancement and coping drinkers form two distinct groups?. Addiction, 2013, 108, 497-503.	3.3	21
46	A variable neighborhood search method for a two-mode blockmodeling problem in social network analysis. Network Science, 2013, 1, 191-212.	1.0	14
47	Principal Cluster Axes: A Projection Pursuit Index for the Preservation of Cluster Structures in the Presence of Data Reduction. Multivariate Behavioral Research, 2012, 47, 463-492.	3.1	10
48	A note on the estimation of the Pareto efficient set for multiobjective matrix permutation problems. British Journal of Mathematical and Statistical Psychology, 2012, 65, 145-162.	1.4	2
49	Emergent clustering methods for empirical OM research. Journal of Operations Management, 2012, 30, 454-466.	5.2	34
50	K-means clustering and mixture model clustering: Reply to McLachlan (2011) and Vermunt (2011).. Psychological Methods, 2011, 16, 89-92.	3.5	20
51	Evaluating mixture modeling for clustering: Recommendations and cautions.. Psychological Methods, 2011, 16, 63-79.	3.5	121
52	A Tabu-Search Heuristic for Deterministic Two-Mode Blockmodeling of Binary Network Matrices. Psychometrika, 2011, 76, 612-633.	2.1	26
53	Introduction: special issue of statistical analysis and data mining on networks. Statistical Analysis and Data Mining, 2011, 4, 459-460.	2.8	1
54	Clusterwise p* models for social network analysis. Statistical Analysis and Data Mining, 2011, 4, 487-496.	2.8	8

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55	Exact and approximate algorithms for variable selection in linear discriminant analysis. Computational Statistics and Data Analysis, 2011, 55, 123-131.	1.2	16
56	Two Algorithms for Relaxed Structural Balance Partitioning: Linking Theory, Models, and Data to Understand Social Network Phenomena. Sociological Methods and Research, 2011, 40, 57-87.	6.8	27
57	Choosing the number of clusters in Îš-means clustering.. Psychological Methods, 2011, 16, 285-297.	3.5	73
58	Alcohol use trajectories and the ubiquitous cat's cradle: Cause for concern?. Journal of Abnormal Psychology, 2011, 120, 322-335.	1.9	142
59	The p-median model as a tool for clustering psychological data.. Psychological Methods, 2010, 15, 87-95.	3.5	49
60	It's the algorithm! Why differential rates of chronicity and comorbidity are not evidence for the validity of the abuseâ€"dependence distinction.. Journal of Abnormal Psychology, 2010, 119, 650-661.	1.9	19
61	K-balance partitioning: An exact method with applications to generalized structural balance and other psychological contexts.. Psychological Methods, 2010, 15, 145-157.	3.5	20
62	Variable Neighborhood Search Heuristics for Selecting a Subset ofÂVariables in Principal Component Analysis. Psychometrika, 2009, 74, 705-726.	2.1	14
63	Integer programs for one- and two-mode blockmodeling based on prespecified image matrices for structural and regular equivalence. Journal of Mathematical Psychology, 2009, 53, 577-585.	1.8	23
64	Cross validation issues in multiobjective clustering. British Journal of Mathematical and Statistical Psychology, 2009, 62, 349-368.	1.4	12
65	An Exact Algorithm for Hierarchically Well-Formulated Subsets in Second-Order Polynomial Regression. Technometrics, 2009, 51, 306-315.	1.9	15
66	A Binary Integer Program to Maximize the Agreement Between Partitions. Journal of Classification, 2008, 25, 185-193.	2.2	10
67	Selection of Variables in Cluster Analysis: An Empirical Comparison of Eight Procedures. Psychometrika, 2008, 73, 125-144.	2.1	106
68	Order-Constrained Solutions in K-Means Clustering: EvenÂBetterÂThanÂBeing Globally Optimal. Psychometrika, 2008, 73, 647-664.	2.1	26
69	Stability analysis in K-means clustering. British Journal of Mathematical and Statistical Psychology, 2008, 61, 255-273.	1.4	32
70	Cautionary Remarks on the Use of Clusterwise Regression. Multivariate Behavioral Research, 2008, 43, 29-49.	3.1	42
71	A New Variable Weighting and Selection Procedure for <i>K</i>-means Cluster Analysis. Multivariate Behavioral Research, 2008, 43, 77-108.	3.1	66
72	Examining Factor Score Distributions to Determine the Nature of Latent Spaces. Multivariate Behavioral Research, 2007, 42, 133-156.	3.1	32

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73	A variable neighborhood search method for generalized blockmodeling of two-mode binary matrices. Journal of Mathematical Psychology, 2007, 51, 325-338.	1.8	34
74	Initializing K-means Batch Clustering: A Critical Evaluation of Several Techniques. Journal of Classification, 2007, 24, 99-121.	2.2	236
75	Validating Clusters with the Lower Bound for Sum-of-Squares Error. Psychometrika, 2007, 72, 93-106.	2.1	10
76	A Comparison of Heuristic Procedures for Minimum Within-Cluster Sums of Squares Partitioning. Psychometrika, 2007, 72, 583-600.	2.1	50
77	Inducing a blockmodel structure of two-mode binary data using seriation procedures. Journal of Mathematical Psychology, 2006, 50, 468-477.	1.8	20
78	K-means clustering: A half-century synthesis. British Journal of Mathematical and Statistical Psychology, 2006, 59, 1-34.	1.4	676
79	Profiling local optima in K-means clustering: Developing a diagnostic technique.. Psychological Methods, 2006, 11, 178-192.	3.5	66
80	OCLUS: An Analytic Method for Generating Clusters with Known Overlap. Journal of Classification, 2005, 22, 221-250.	2.2	47
81	Properties of the Hubert-Arable Adjusted Rand Index.. Psychological Methods, 2004, 9, 386-396.	3.5	456
82	Standardizing Variables in K-means Clustering. , 2004, , 53-60.		37
83	Local Optima in K-Means Clustering: What You Don't Know May Hurt You.. Psychological Methods, 2003, 8, 294-304.	3.5	230
84	A comparison of spectral clustering and the walktrap algorithm for community detection in network psychometrics.. Psychological Methods, 0, , .	3.5	5