Ranjan Maitra

List of Publications by Year in descending order

46	1,129	471509	414414
46	**1,129**	**17**	**32**
papers	citations	h-index	g-index

48	48	48	1159
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Finite mixture models and model-based clustering. Statistics Surveys, 2010, 4, .	11.3	214
2	Simulating Data to Study Performance of Finite Mixture Modeling and Clustering Algorithms. Journal of Computational and Graphical Statistics, 2010, 19, 354-376.	1.7	108
3	MixSim: An<i>R</i>Package for Simulating Data to Study Performance of Clustering Algorithms. Journal of Statistical Software, 2012, 51, .	3.7	99
4	Initializing Partition-Optimization Algorithms. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2009, 6, 144-157.	3.0	84
5	Test-retest reliability estimation of functional MRI data. Magnetic Resonance in Medicine, 2002, 48, 62-70.	3.0	70
6	Sex differences in the cerebral BOLD signal response to painful heat stimuli. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 291, R257-R267.	1.8	62
7	A re-defined and generalized percent-overlap-of-activation measure for studies of fMRI reproducibility and its use in identifying outlier activation maps. NeuroImage, 2010, 50, 124-135.	4.2	45
8	Gaussian-mixture-model-based cluster analysis finds five kinds of gamma-ray bursts in the BATSE catalogue. Monthly Notices of the Royal Astronomical Society, 2017, 469, 3374-3389.	4.4	30
9	Clustering Massive Datasets With Application in Software Metrics and Tomography. Technometrics, 2001, 43, 336-346.	1.9	28
10	Bootstrapping for Significance of Compact Clusters in Multidimensional Datasets. Journal of the American Statistical Association, 2012, 107, 378-392.	3.1	27
11	A<i>k</i>-mean-directions Algorithm for Fast Clustering of Data on the Sphere. Journal of Computational and Graphical Statistics, 2010, 19, 377-396.	1.7	26
12	Merging <i>K</i>â€means with hierarchical clustering for identifying generalâ€shaped groups. Stat, 2018, 7, e172.	0.4	26
13	Noise Estimation in Magnitude MR Datasets. IEEE Transactions on Medical Imaging, 2009, 28, 1615-1622.	8.9	24
14	Isolated Dislocation of the Middle Cuneiform in a Farmer: A Case Report and Review of the Literature. Foot and Ankle International, 1997, 18, 735-738.	2.3	23
15	Variability Assessment in Positron Emission Tomography and Related Generalized Deconvolution Models. Journal of the American Statistical Association, 1998, 93, 1340-1355.	3.1	21
16	Modelâ€based clustering of regression time series data via APECMâ€"an AECM algorithm sung to an even faster beat. Statistical Analysis and Data Mining, 2011, 4, 567-578.	2.8	21
17	Emerging Technologies and Next-Generation Intensive Longitudinal Data Collection. , 2006, , 254-278.		21
18	Classification With the Matrix-Variate-<i>t</i> Distribution. Journal of Computational and Graphical Statistics, 2020, 29, 668-674.	1.7	19

#	ARTICLE	IF	CITATIONS
19	Synthetic Magnetic Resonance Imaging Revisited. IEEE Transactions on Medical Imaging, 2010, 29, 895-902.	8.9	18
20	Clustering in the Presence of Scatter. Biometrics, 2009, 65, 341-352.	1.4	15
21	Complex-valued time series modeling for improved activation detection in fMRI studies. Annals of Applied Statistics, 2018, 12, 1451-1478.	1.1	15
22	Assessing certainty of activation or inactivation in testâ€"retest fMRI studies. NeuroImage, 2009, 47, 88-97.	4.2	14
23	Variability Assessment in Positron Emission Tomography and Related Generalized Deconvolution Models. Journal of the American Statistical Association, 1998, 93, 1340.	3.1	12
24	On the Expectation-Maximization algorithm for Rice-Rayleigh mixtures with application to noise parameter estimation in magnitude MR datasets. Sankhya B, 2013, 75, 293-318.	0.9	11
25	Reliability estimation of grouped functional imaging data using penalized maximum likelihood. Magnetic Resonance in Medicine, 2005, 53, 1126-1134.	3.0	10
26	Ricean over Gaussian modelling in magnitude fMRI analysisâ€"added complexity with negligible practical benefits. Stat, 2013, 2, 303-316.	0.4	9
27	Multivariate t-Mixtures-Model-based Cluster Analysis of BATSE Catalog Establishes Importance of All Observed Parameters, Confirms Five Distinct Ellipsoidal Sub-populations of Gamma Ray Bursts. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	8
28	An efficient kâ€"modes algorithm for clustering categorical datasets. Statistical Analysis and Data Mining, 2022, 15, 83-97.	2.8	8
29	An efficient kâ€"meansâ€"type algorithm for clustering datasets with incomplete records. Statistical Analysis and Data Mining, 2018, 11, 296-311.	2.8	7
30	Estimating Precision in Functional Images. Journal of Computational and Graphical Statistics, 1997, 6, 132.	1.7	6
31	A nonstationary nonparametric Bayesian approach to dynamically modeling effective connectivity in functional magnetic resonance imaging experiments. Annals of Applied Statistics, 2011, 5, .	1.1	6
32	Multivariate Gaussian Simulation Outside Arbitrary Ellipsoids. Journal of Computational and Graphical Statistics, 2007, 16, 692-708.	1.7	5
33	A Statistical Framework for Improved Automatic Flaw Detection in Nondestructive Evaluation Images. Technometrics, 2017, 59, 247-261.	1.9	5
34	Estimating Precision in Functional Images. Journal of Computational and Graphical Statistics, 1997, 6, 132-142.	1.7	4
35	Accounting for spot matching uncertainty in the analysis of proteomics data from two-dimensional gel electrophoresis. Sankhya B, 2011, 73, 123-143.	0.9	4
36	TiKâ€"means: Transformationâ€"infused K â€"means clustering for skewed groups. Statistical Analysis and Data Mining, 2019, 12, 223-233.	2.8	4

#	Article	IF	Citations
37	Fast model‐based clustering of partial records. Stat, 2022, 11, e416.	0.4	4
38	Fast Adaptive Smoothing and Thresholding for Improved Activation Detection in Low-Signal fMRI. IEEE Transactions on Medical Imaging, 2019, 38, 2821-2828.	8.9	3
39	A Matrix-Free Likelihood Method for Exploratory Factor Analysis of High-Dimensional Gaussian Data. Journal of Computational and Graphical Statistics, 2020, 29, 675-680.	1.7	3
40	Quantitative matching of forensic evidence fragments utilizing <scp>3D</scp> microscopy analysis of fracture surface replicas. Journal of Forensic Sciences, 2022, 67, 899-910.	1.6	3
41	<title>Bayesian reconstruction in synthetic magnetic resonance imaging</title>. , 1998, , .		2
42	Pay Phones, Parking Meters, Vending Machines, and Optimal Bayesian Decisions on Collection Times. Journal of the American Statistical Association, 2001, 96, 476-487.	3.1	2
43	Reduced Basis Kriging for Big Spatial Fields. Sankhya A, 2018, 80, 280-300.	0.8	1
44	Efficient Bandwidth Estimation in 2D Filtered Backprojection Reconstruction. IEEE Transactions on Image Processing, 2019, 28, 5610-5619.	9.8	1
45	Estimating basis functions in massive fields under the spatial mixed effects model. Statistical Analysis and Data Mining, 2021, 14, 430-448.	2.8	0
46	Fully Three-dimensional Radial Visualization. Journal of Computational and Graphical Statistics, 0, , 1-20.	1.7	0