

# Ranjan Maitra

## List of Publications by Year in descending order

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46  
papers

1,129  
citations

471509

17  
h-index

414414

32  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1159  
citing authors

#	ARTICLE	IF	CITATIONS
1	An efficient $k$ -modes algorithm for clustering categorical datasets. <i>Statistical Analysis and Data Mining</i> , 2022, 15, 83-97.	2.8	8
2	Fast model-based clustering of partial records. <i>Stat</i> , 2022, 11, e416.	0.4	4
3	Quantitative matching of forensic evidence fragments utilizing $3D$ microscopy analysis of fracture surface replicas. <i>Journal of Forensic Sciences</i> , 2022, 67, 899-910.	1.6	3
4	Estimating basis functions in massive fields under the spatial mixed effects model. <i>Statistical Analysis and Data Mining</i> , 2021, 14, 430-448.	2.8	0
5	A Matrix-Free Likelihood Method for Exploratory Factor Analysis of High-Dimensional Gaussian Data. <i>Journal of Computational and Graphical Statistics</i> , 2020, 29, 675-680.	1.7	3
6	Classification With the Matrix-Variate $t$ Distribution. <i>Journal of Computational and Graphical Statistics</i> , 2020, 29, 668-674.	1.7	19
7	Fast Adaptive Smoothing and Thresholding for Improved Activation Detection in Low-Signal fMRI. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2821-2828.	8.9	3
8	Efficient Bandwidth Estimation in 2D Filtered Backprojection Reconstruction. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 5610-5619.	9.8	1
9	Tikmeans: Transformation-infused $K$ -means clustering for skewed groups. <i>Statistical Analysis and Data Mining</i> , 2019, 12, 223-233.	2.8	4
10	Merging $K$ -means with hierarchical clustering for identifying general-shaped groups. <i>Stat</i> , 2018, 7, e172.	0.4	26
11	Complex-valued time series modeling for improved activation detection in fMRI studies. <i>Annals of Applied Statistics</i> , 2018, 12, 1451-1478.	1.1	15
12	An efficient $k$ -means-type algorithm for clustering datasets with incomplete records. <i>Statistical Analysis and Data Mining</i> , 2018, 11, 296-311.	2.8	7
13	Reduced Basis Kriging for Big Spatial Fields. <i>Sankhya A</i> , 2018, 80, 280-300.	0.8	1
14	A Statistical Framework for Improved Automatic Flaw Detection in Nondestructive Evaluation Images. <i>Technometrics</i> , 2017, 59, 247-261.	1.9	5
15	Gaussian-mixture-model-based cluster analysis finds five kinds of gamma-ray bursts in the BATSE catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 3374-3389.	4.4	30
16	On the Expectation-Maximization algorithm for Rice-Rayleigh mixtures with application to noise parameter estimation in magnitude MR datasets. <i>Sankhya B</i> , 2013, 75, 293-318.	0.9	11
17	Ricean over Gaussian modelling in magnitude fMRI analysis added complexity with negligible practical benefits. <i>Stat</i> , 2013, 2, 303-316.	0.4	9
18	Bootstrapping for Significance of Compact Clusters in Multidimensional Datasets. <i>Journal of the American Statistical Association</i> , 2012, 107, 378-392.	3.1	27

#	ARTICLE	IF	CITATIONS
19	<b>MixSim</b> : An R Package for Simulating Data to Study Performance of Clustering Algorithms. <i>Journal of Statistical Software</i> , 2012, 51, .	3.7	99
20	A nonstationary nonparametric Bayesian approach to dynamically modeling effective connectivity in functional magnetic resonance imaging experiments. <i>Annals of Applied Statistics</i> , 2011, 5, .	1.1	6
21	Accounting for spot matching uncertainty in the analysis of proteomics data from two-dimensional gel electrophoresis. <i>Sankhya B</i> , 2011, 73, 123-143.	0.9	4
22	Model-based clustering of regression time series data via APECM—an AECM algorithm sung to an even faster beat. <i>Statistical Analysis and Data Mining</i> , 2011, 4, 567-578.	2.8	21
23	Synthetic Magnetic Resonance Imaging Revisited. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 895-902.	8.9	18
24	Simulating Data to Study Performance of Finite Mixture Modeling and Clustering Algorithms. <i>Journal of Computational and Graphical Statistics</i> , 2010, 19, 354-376.	1.7	108
25	A <i>k</i> -mean-directions Algorithm for Fast Clustering of Data on the Sphere. <i>Journal of Computational and Graphical Statistics</i> , 2010, 19, 377-396.	1.7	26
26	Finite mixture models and model-based clustering. <i>Statistics Surveys</i> , 2010, 4, .	11.3	214
27	A re-defined and generalized percent-overlap-of-activation measure for studies of fMRI reproducibility and its use in identifying outlier activation maps. <i>NeuroImage</i> , 2010, 50, 124-135.	4.2	45
28	Noise Estimation in Magnitude MR Datasets. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 1615-1622.	8.9	24
29	Clustering in the Presence of Scatter. <i>Biometrics</i> , 2009, 65, 341-352.	1.4	15
30	Initializing Partition-Optimization Algorithms. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2009, 6, 144-157.	3.0	84
31	Assessing certainty of activation or inactivation in test-retest fMRI studies. <i>NeuroImage</i> , 2009, 47, 88-97.	4.2	14
32	Multivariate Gaussian Simulation Outside Arbitrary Ellipsoids. <i>Journal of Computational and Graphical Statistics</i> , 2007, 16, 692-708.	1.7	5
33	Sex differences in the cerebral BOLD signal response to painful heat stimuli. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 291, R257-R267.	1.8	62
34	Emerging Technologies and Next-Generation Intensive Longitudinal Data Collection. , 2006, , 254-278.		21
35	Reliability estimation of grouped functional imaging data using penalized maximum likelihood. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 1126-1134.	3.0	10
36	Test-retest reliability estimation of functional MRI data. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 62-70.	3.0	70

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37	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
38	Clustering Massive Datasets With Application in Software Metrics and Tomography. Technometrics, 2001, 43, 336-346.	1.9	28
39	Variability Assessment in Positron Emission Tomography and Related Generalized Deconvolution Models. Journal of the American Statistical Association, 1998, 93, 1340-1355.	3.1	21
40	<title>Bayesian reconstruction in synthetic magnetic resonance imaging</title>. , 1998, , .		2
41	Variability Assessment in Positron Emission Tomography and Related Generalized Deconvolution Models. Journal of the American Statistical Association, 1998, 93, 1340.	3.1	12
42	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
43	Estimating Precision in Functional Images. Journal of Computational and Graphical Statistics, 1997, 6, 132-142.	1.7	4
44	Estimating Precision in Functional Images. Journal of Computational and Graphical Statistics, 1997, 6, 132.	1.7	6
45	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
46	Fully Three-dimensional Radial Visualization. Journal of Computational and Graphical Statistics, 0, , 1-20.	1.7	0