Nizar Bouguila

List of Publications by Citations

351 papers	3,885 citations	33 h-index	48 g-index
408 ext. papers	5,034 ext. citations	3.6 avg, IF	6.5 L-index

#	Paper	IF	Citations
351	Unsupervised learning of a finite mixture model based on the Dirichlet distribution and its application. *IEEE Transactions on Image Processing*, **2004**, 13, 1533-43	8.7	132
350	High-dimensional unsupervised selection and estimation of a finite generalized Dirichlet mixture model based on minimum message length. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2007**, 29, 1716-31	13.3	116
349	Variational learning for finite Dirichlet mixture models and applications. *IEEE Transactions on Neural Networks and Learning Systems*, **2012**, 23, 762-74	10.3	93
348	A hybrid feature extraction selection approach for high-dimensional non-Gaussian data clustering. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2009**, 31, 1429-43	13.3	92
347	A fast clustering algorithm based on pruning unnecessary distance computations in DBSCAN for high-dimensional data. *Pattern Recognition*, **2018**, 83, 375-387	7.7	82
346	Practical Bayesian estimation of a finite beta mixture through gibbs sampling and its applications. *Statistics and Computing*, **2006**, 16, 215-225	1.8	79
345	Count data modeling and classification using finite mixtures of distributions. *IEEE Transactions on Neural Networks*, **2011**, 22, 186-98		66
344	A hybrid SEM algorithm for high-dimensional unsupervised learning using a finite generalized Dirichlet mixture. *IEEE Transactions on Image Processing*, **2006**, 15, 2657-68	8.7	65
343	A Dirichlet process mixture of generalized Dirichlet distributions for proportional data modeling. *IEEE Transactions on Neural Networks*, **2010**, 21, 107-22		63
342	A study of spam filtering using support vector machines. *Artificial Intelligence Review*, **2010**, 34, 73-108	9.7	62
341	Clustering of Count Data Using Generalized Dirichlet Multinomial Distributions. *IEEE Transactions on Knowledge and Data Engineering*, **2008**, 20, 462-474	4.2	61
340	Positive vectors clustering using inverted Dirichlet finite mixture models. *Expert Systems With Applications*, **2012**, 39, 1869-1882	7.8	59
339	Network Anomaly Intrusion Detection Using a Nonparametric Bayesian Approach and Feature Selection. *IEEE Access*, **2019**, 7, 52181-52190	3.5	52
338	Hybrid Generative/Discriminative Approaches for Proportional Data Modeling and Classification. *IEEE Transactions on Knowledge and Data Engineering*, **2012**, 24, 2184-2202	4.2	51
337	Bayesian learning of finite generalized Gaussian mixture models on images. *Signal Processing*, **2011**, 91, 801-820	4.4	50
336	Variational learning of a Dirichlet process of generalized Dirichlet distributions for simultaneous clustering and feature selection. *Pattern Recognition*, **2013**, 46, 2754-2769	7.7	47
335	On Bayesian analysis of a finite generalized Dirichlet mixture via a Metropolis-within-Gibbs sampling. *Pattern Analysis and Applications*, **2009**, 12, 151-166	2.3	46

334	Bayesian hybrid generative discriminative learning based on finite Liouville mixture models. *Pattern Recognition*, **2011**, 44, 1183-1200	7.7	46
333	Unsupervised learning of a finite discrete mixture: Applications to texture modeling and image databases summarization. *Journal of Visual Communication and Image Representation*, **2007**, 18, 295-309	2.7	46
332	Model-based subspace clustering of non-Gaussian data. *Neurocomputing*, **2010**, 73, 1730-1739	5.4	43
331	Bayesian learning of finite generalized inverted Dirichlet mixtures: Application to object classification and forgery detection. *Expert Systems With Applications*, **2014**, 41, 2329-2336	7.8	41
330	Using unsupervised learning of a finite Dirichlet mixture model to improve pattern recognition applications. *Pattern Recognition Letters*, **2005**, 26, 1916-1925	4.7	41
329	Automatic inpainting scheme for video text detection and removal. *IEEE Transactions on Image Processing*, **2013**, 22, 4460-72	8.7	40
328	Finite asymmetric generalized Gaussian mixture models learning for infrared object detection. *Computer Vision and Image Understanding*, **2013**, 117, 1659-1671	4.3	39
327	Online clustering via finite mixtures of Dirichlet and minimum message length. *Engineering Applications of Artificial Intelligence*, **2006**, 19, 371-379	7.2	38
326	BLOCK-DBSCAN: Fast clustering for large scale data. *Pattern Recognition*, **2021**, 109, 107624	7.7	38
325	Robust simultaneous positive data clustering and unsupervised feature selection using generalized inverted Dirichlet mixture models. *Knowledge-Based Systems*, **2014**, 59, 182-195	7.3	36
324	Spatial Color Image Databases Summarization **2007**,		36
323	Bayesian learning of inverted Dirichlet mixtures for SVM kernels generation. *Neural Computing and Applications*, **2013**, 23, 1443-1458	4.8	35
322	A countably infinite mixture model for clustering and feature selection. *Knowledge and Information Systems*, **2012**, 33, 351-370	2.4	35
321	A Dirichlet process mixture of dirichlet distributions for classification and prediction **2008**,		35
320	A Model-Based Approach for Discrete Data Clustering and Feature Weighting Using MAP and Stochastic Complexity. *IEEE Transactions on Knowledge and Data Engineering*, **2009**, 21, 1649-1664	4.2	34
319	A discrete mixture-based kernel for SVMs: Application to spam and image categorization. *Information Processing and Management*, **2009**, 45, 631-642	6.3	34
318	Variational Bayesian inference for infinite generalized inverted Dirichlet mixtures with feature selection and its application to clustering. *Applied Intelligence*, **2016**, 44, 507-525	4.9	33
317	Image and Video Segmentation by Combining Unsupervised Generalized Gaussian Mixture Modeling and Feature Selection. *IEEE Transactions on Circuits and Systems for Video Technology*, **2010**, 20, 1373-1377	6.4	33

316	Fast neighbor search by using revised k-d tree. *Information Sciences*, **2019**, 472, 145-162	7.7	33
315	Spatial color image segmentation based on finite non-Gaussian mixture models. *Expert Systems With Applications*, **2012**, 39, 8993-9001	7.8	32
314	Unsupervised Hybrid Feature Extraction Selection for High-Dimensional Non-Gaussian Data Clustering with Variational Inference. *IEEE Transactions on Knowledge and Data Engineering*, **2013**, 25, 1670-1685	4.2	32
313	Online learning of a Dirichlet process mixture of Beta-Liouville distributions via variational inference. *IEEE Transactions on Neural Networks and Learning Systems*, **2013**, 24, 1850-62	10.3	32
312	Discrete data clustering using finite mixture models. *Pattern Recognition*, **2009**, 42, 33-42	7.7	32
311	Background subtraction using finite mixtures of asymmetric Gaussian distributions and shadow detection. *Machine Vision and Applications*, **2014**, 25, 1145-1162	2.8	31
310	Finite general Gaussian mixture modeling and application to image and video foreground segmentation. *Journal of Electronic Imaging*, **2008**, 17, 013005	0.7	30
309	Simultaneous high-dimensional clustering and feature selection using asymmetric Gaussian mixture models. *Image and Vision Computing*, **2015**, 34, 27-41	3.7	29
308	Proportional data modeling with hidden Markov models based on generalized Dirichlet and Beta-Liouville mixtures applied to anomaly detection in public areas. *Pattern Recognition*, **2016**, 55, 125-136	7.7	29
307	Probabilistic approach for QoS-aware recommender system for trustworthy web service selection. *Applied Intelligence*, **2014**, 41, 503-524	4.9	29
306	Unsupervised Anomaly Intrusion Detection via Localized Bayesian Feature Selection **2011**,		29
305	Novel Mixtures Based on the Dirichlet Distribution: Application to Data and Image Classification **2003**, 172-181		29
304	MML-Based Approach for Finite Dirichlet Mixture Estimation and Selection. *Lecture Notes in Computer Science*, **2005**, 42-51	0.9	26
303	On Short-Term Load Forecasting Using Machine Learning Techniques and a Novel Parallel Deep LSTM-CNN Approach. *IEEE Access*, **2021**, 9, 31191-31212	3.5	26
302	A finite mixture model for simultaneous high-dimensional clustering, localized feature selection and outlier rejection. *Expert Systems With Applications*, **2012**, 39, 6641-6656	7.8	25
301	Image and video denoising by combining unsupervised bounded generalized gaussian mixture modeling and spatial information. *Multimedia Tools and Applications*, **2018**, 77, 25591-25606	2.5	24
300	A fully Bayesian model based on reversible jump MCMC and finite Beta mixtures for clustering. *Expert Systems With Applications*, **2012**, 39, 5946-5959	7.8	24
299	Infinite Liouville mixture models with application to text and texture categorization. *Pattern Recognition Letters*, **2012**, 33, 103-110	4.7	24

298	Finite Generalized Gaussian Mixture Modeling and Applications to Image and Video Foreground Segmentation **2007**,		24
297	Unsupervised learning of finite full covariance multivariate generalized Gaussian mixture models for human activity recognition. *Multimedia Tools and Applications*, **2019**, 78, 18669-18691	2.5	22
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295	A Comparison Between Different Gaussian-Based Mixture Models **2017**,		21
294	**2012**,		21
293	. *IEEE Transactions on Services Computing*, **2016**, 9, 968-981	4.8	20
292	Variational Bayesian Learning of Generalized Dirichlet-Based Hidden Markov Models Applied to Unusual Events Detection. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 1034-1047	10.3	20
291	A novel statistical approach for clustering positive data based on finite inverted Beta-Liouville mixture models. *Neurocomputing*, **2019**, 333, 110-123	5.4	20
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289	On multivariate binary data clustering and feature weighting. *Computational Statistics and Data Analysis*, **2010**, 54, 120-134	1.6	17
288	Bayesian Learning of Generalized Gaussian Mixture Models on Biomedical Images. *Lecture Notes in Computer Science*, **2010**, 207-218	0.9	17
287	Deriving Probabilistic SVM Kernels From Flexible Statistical Mixture Models and its Application to Retinal Images Classification. *IEEE Access*, **2019**, 7, 1107-1117	3.5	17
286	A hierarchical Dirichlet process mixture of generalized Dirichlet distributions for feature selection. *Computers and Electrical Engineering*, **2015**, 43, 48-65	4.3	16
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284	Object clustering and recognition using multi-finite mixtures for semantic classes and hierarchy modeling. *Expert Systems With Applications*, **2014**, 41, 1218-1235	7.8	16
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267	On Discrete Data Clustering **2008**, 503-510		12
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260	Entropy-based variational Bayes learning framework for data clustering. *IET Image Processing*, **2018**, 12, 1762-1772	1.7	11
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257	A variational Bayes model for count data learning and classification. *Engineering Applications of Artificial Intelligence*, **2014**, 35, 176-186	7.2	10
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255	Generalized Gaussian mixture models as a nonparametric Bayesian approach for clustering using class-specific visual features. *Journal of Visual Communication and Image Representation*, **2012**, 23, 1199-1212	2.7	10
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245	Quantization-free parameter space reduction in ellipse detection. *Expert Systems With Applications*, **2011**, 38, 7622-7632	7.8	9

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243	Bounded Generalized Gaussian Mixture Model with ICA. *Neural Processing Letters*, **2019**, 49, 1299-1320	2.4	9
242	Markov Chain Monte Carlo-Based Bayesian Inference for Learning Finite and Infinite Inverted Beta-Liouville Mixture Models. *IEEE Access*, **2021**, 9, 71170-71183	3.5	9
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240	Semantic Scene Classification with Generalized Gaussian Mixture Models. *Lecture Notes in Computer Science*, **2015**, 159-166	0.9	8
239	Face detection and facial expression recognition using simultaneous clustering and feature selection via an expectation propagation statistical learning framework. *Multimedia Tools and Applications*, **2015**, 74, 4303-4327	2.5	8
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231	Database quality assessment for interactive learning: Application to occupancy estimation. *Energy and Buildings*, **2020**, 209, 109578	7	8
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229	Variational Learning of Beta-Liouville Hidden Markov Models for Infrared Action Recognition **2019**,		8
228	Variational-based latent generalized Dirichlet allocation model in the collapsed space and applications. *Neurocomputing*, **2019**, 332, 372-395	5.4	8
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226	Bayesian frameworks for traffic scenes monitoring via view-based 3D cars models recognition. *Multimedia Tools and Applications*, **2019**, 78, 18813-18833	2.5	7
225	Hybrid generative discriminative approaches based on Multinomial Scaled Dirichlet mixture models. *Applied Intelligence*, **2019**, 49, 3783-3800	4.9	7
224	Beyond hybrid generative discriminative learning: spherical data classification. *Pattern Analysis and Applications*, **2015**, 18, 113-133	2.3	7
223	High-dimensional count data clustering based on an exponential approximation to the multinomial Beta-Liouville distribution. *Information Sciences*, **2020**, 524, 116-135	7.7	7
222	Multivariate bounded support Laplace mixture model. *Soft Computing*, **2020**, 24, 13239-13268	3.5	7
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220	Anomaly Intrusion Detection Using Incremental Learning of an Infinite Mixture Model with Feature Selection. *Lecture Notes in Computer Science*, **2013**, 364-373	0.9	7
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216	Novel approaches for synthesizing video textures. *Expert Systems With Applications*, **2012**, 39, 828-839	7.8	6
215	A new latent generalized dirichlet allocation model for image classification **2017**,		6
214	Topic Novelty Detection Using Infinite Variational Inverted Dirichlet Mixture Models **2015**,		6
213	Non-Gaussian Data Clustering via Expectation Propagation Learning of Finite Dirichlet Mixture Models and Applications. *Neural Processing Letters*, **2014**, 39, 115-135	2.4	6
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211	Infinite Generalized Gaussian Mixture Modeling and Applications. *Lecture Notes in Computer Science*, **2011**, 201-210	0.9	6
210	Online spam filtering using support vector machines **2009**,		6
209	Integrating spatial and color information in images using a statistical framework. *Expert Systems With Applications*, **2010**, 37, 1542-1549	7.8	6

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207	Feature Selection for Non Gaussian Mixture Models. *IEEE International Workshop on Machine Learning for Signal Processing*, **2007**,		6
206	Online Learning of Finite and Infinite Gamma Mixture Models for COVID-19 Detection in Medical Images. *Computers*, **2021**, 10, 6	1.9	6
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201	Semi-Convex Hull Tree: Fast Nearest Neighbor Queries for Large Scale Data on GPUs **2018**,		6
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199	A nonparametric Bayesian learning model using accelerated variational inference and feature selection. *Pattern Analysis and Applications*, **2019**, 22, 63-74	2.3	5
198	Spherical data clustering and feature selection through nonparametric Bayesian mixture models with von Mises distributions. *Engineering Applications of Artificial Intelligence*, **2020**, 94, 103781	7.2	5
197	On the smoothing of multinomial estimates using Liouville mixture models and applications. *Pattern Analysis and Applications*, **2013**, 16, 349-363	2.3	5
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195	A model-based discriminative framework for sets of positive vectors classification: Application to object categorization **2014**,		5
194	Online redundant image elimination and its application to wireless capsule endoscopy. *Signal, Image and Video Processing*, **2014**, 8, 1497-1506	1.6	5
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182	Fake News Detection Using Bayesian Inference **2019**,		4
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179	Model-Based Clustering Based on Variational Learning of Hierarchical Infinite Beta-Liouville Mixture Models. *Neural Processing Letters*, **2016**, 44, 431-449	2.4	4
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177	Speaker Verification Using Adapted Bounded Gaussian Mixture Model **2018**,		4
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171	Improving codebook generation for action recognition using a mixture of Asymmetric Gaussians **2014**,	4
170	Bandlet-based sparsity regularization in video inpainting. *Journal of Visual Communication and Image Representation*, **2014**, 25, 855-863	2.7 4
169	Variational learning of finite Beta-Liouville mixture models using component splitting **2013**,	4
168	A Bayesian Approach for the Classification of Mammographic Masses **2013**,	4
167	The clique potential of Markov random field in a random experiment for estimation of noise levels in 2D brain MRI. *International Journal of Imaging Systems and Technology*, **2013**, 23, 304-313	2.5 4
166	A video completion method based on bandlet transform **2011**,	4
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162	Learning concepts from visual scenes using a binary probabilistic model **2009**,	4
161	Unsupervised Feature and Model Selection for Generalized Dirichlet Mixture Models. *Lecture Notes in Computer Science*, **2007**, 330-341	0.9 4
160	Infinite Langevin Mixture Modeling and Feature Selection **2016**,	4
159	A Probabilistic Approach based on a Finite Mixture Model of Multivariate Beta Distributions **2019**,	4
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155	Asymmetric Gaussian Mixtures with Reversible Jump MCMC **2018**,	4

154	Proportional data clustering using K-means algorithm: A comparison of different distances **2017**,		3
153	Web Service Intrusion Detection Using a Probabilistic Framework. *Advances in Intelligent Systems and Computing*, **2015**, 161-166	0.4	3
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150	Online Clustering for Estimating Occupancy in an Office Setting **2019**,		3
149	Data Clustering Using Online Variational Learning of Finite Scaled Dirichlet Mixture Models **2019**,		3
148	Dynamic textures clustering using a hierarchical Pitman-Yor process mixture of Dirichlet distributions **2015**,		3
147	Human Action Recognition Using Accelerated Variational Learning of Infinite Dirichlet Mixture Models **2015**,		3
146	Expectation propagation learning of finite Beta-Liouville mixtures for spatio-temporal object recognition **2013**,		3
145	A Bayesian approach for SAR images segmentation and changes detection **2010**,		3
144	Probabilistic clustering based on Langevin mixture **2011**,		3
143	A Bayesian approach for texture images classification and retrieval **2011**,		3
142	Probabilistic Modeling for Frequency Vectors Using a Flexible Shifted-Scaled Dirichlet Distribution Prior. *ACM Transactions on Knowledge Discovery From Data*, **2020**, 14, 1-35	4	3
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135	Speaker Classification via Supervised Hierarchical Clustering Using ICA Mixture Model. *Lecture Notes in Computer Science*, **2016**, 193-202	0.9	3
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