

Concha Bielza

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

182 papers	3,798 citations	29 h-index	56 g-index
200 ext. papers	4,699 ext. citations	3.9 avg, IF	5.56 L-index

#	Paper	IF	Citations
182	An Online Feature Selection Methodology for Ball-Bearing Harmonic Frequencies Based on HMMs. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 546-555	0.4	
181	Semiparametric Bayesian networks. <i>Information Sciences</i> , 2021 , 584, 564-564	7.7	5
180	Bayesian Networks for Interpretable Machine Learning and Optimization. <i>Neurocomputing</i> , 2021 ,	5.4	4
179	Multi-dimensional Bayesian network classifiers: A survey. <i>Artificial Intelligence Review</i> , 2021 , 54, 519-559	9.7	9
178	Efficient Anomaly Detection in a Laser-Surface Heat-Treatment Process via Laser-Spot Tracking. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 405-415	5.5	1
177	BayeSuites: An open web framework for massive Bayesian networks focused on neuroscience. <i>Neurocomputing</i> , 2021 , 428, 166-181	5.4	2
176	Comparing the Electrophysiology and Morphology of Human and Mouse Layer 2/3 Pyramidal Neurons With Bayesian Networks. <i>Frontiers in Neuroinformatics</i> , 2021 , 15, 580873	3.9	2
175	Patient specific prediction of temporal lobe epilepsy surgical outcomes. <i>Epilepsia</i> , 2021 , 62, 2113-2122	6.4	1
174	Long-term forecasting of multivariate time series in industrial furnaces with dynamic Gaussian Bayesian networks. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 103, 104301	7.2	4
173	Autoregressive Asymmetric Linear Gaussian Hidden Markov Models. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	2
172	Structure Learning of High-Order Dynamic Bayesian Networks via Particle Swarm Optimization with Order Invariant Encoding. <i>Lecture Notes in Computer Science</i> , 2021 , 158-171	0.9	0
171	Identifying Parkinson's disease subtypes with motor and non-motor symptoms via model-based multi-partition clustering. <i>Scientific Reports</i> , 2021 , 11, 23645	4.9	2
170	Data-Driven Computational Neuroscience: Machine Learning and Statistical Models 2020 ,		3
169	Machine-tool condition monitoring with Gaussian mixture models-based dynamic probabilistic clustering. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 89, 103434	7.2	11
168	Comparing basal dendrite branches in human and mouse hippocampal CA1 pyramidal neurons with Bayesian networks. <i>Scientific Reports</i> , 2020 , 10, 18592	4.9	3
167	Incremental Learning of Latent Forests. <i>IEEE Access</i> , 2020 , 8, 224420-224432	3.5	0
166	Sparse Cholesky Covariance Parametrization for Recovering Latent Structure in Ordered Data. <i>IEEE Access</i> , 2020 , 8, 154614-154624	3.5	

165	A community-based transcriptomics classification and nomenclature of neocortical cell types. <i>Nature Neuroscience</i> , 2020 , 23, 1456-1468	25.5	76
164	On generating random Gaussian graphical models. <i>International Journal of Approximate Reasoning</i> , 2020 , 125, 240-250	3.6	1
163	A review of Gaussian Markov models for conditional independence. <i>Journal of Statistical Planning and Inference</i> , 2020 , 206, 127-144	0.8	2
162	Circular Bayesian classifiers using wrapped Cauchy distributions. <i>Data and Knowledge Engineering</i> , 2019 , 122, 101-115	1.5	4
161	Random Forests for Regression as a Weighted Sum of k -Potential Nearest Neighbors. <i>IEEE Access</i> , 2019 , 7, 25660-25672	3.5	8
160	Tractable learning of Bayesian networks from partially observed data. <i>Pattern Recognition</i> , 2019 , 91, 190-199	7.7	3
159	A Directional-Linear Bayesian Network and Its Application for Clustering and Simulation of Neural Somas. <i>IEEE Access</i> , 2019 , 7, 69907-69921	3.5	6
158	Classification of GABAergic interneurons by leading neuroscientists. <i>Scientific Data</i> , 2019 , 6, 221	8.2	11
157	bnclassify: Learning Bayesian Network Classifiers. <i>R Journal</i> , 2019 , 10, 455	3.3	10
156	A circular-linear dependence measure under Johnson-Woehrly distributions and its application in Bayesian networks. <i>Information Sciences</i> , 2019 , 486, 240-253	7.7	4
155	Learning tractable Bayesian networks in the space of elimination orders. <i>Artificial Intelligence</i> , 2019 , 274, 66-90	3.6	6
154	MultiMap: A Tool to Automatically Extract and Analyse Spatial Microscopic Data From Large Stacks of Confocal Microscopy Images. <i>Frontiers in Neuroanatomy</i> , 2018 , 12, 37	3.6	4
153	3D morphology-based clustering and simulation of human pyramidal cell dendritic spines. <i>PLoS Computational Biology</i> , 2018 , 14, e1006221	5	11
152	Asymmetric Hidden Markov Models with Continuous Variables. <i>Lecture Notes in Computer Science</i> , 2018 , 98-107	0.9	1
151	Bayesian Optimization of the PC Algorithm for Learning Gaussian Bayesian Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 44-54	0.9	4
150	A Fast Metropolis-Hastings Method for Generating Random Correlation Matrices. <i>Lecture Notes in Computer Science</i> , 2018 , 117-124	0.9	
149	Tractability of most probable explanations in multidimensional Bayesian network classifiers. <i>International Journal of Approximate Reasoning</i> , 2018 , 93, 74-87	3.6	12
148	Multi-dimensional Bayesian Network Classifier Trees. <i>Lecture Notes in Computer Science</i> , 2018 , 354-363	0.9	6

147	A regularity index for dendrites - local statistics of a neuron's input space. <i>PLoS Computational Biology</i> , 2018 , 14, e1006593	5	2
146	Towards a supervised classification of neocortical interneuron morphologies. <i>BMC Bioinformatics</i> , 2018 , 19, 511	3.6	12
145	Clustering of Data Streams With Dynamic Gaussian Mixture Models: An IoT Application in Industrial Processes. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 3533-3547	10.7	26
144	Univariate and bivariate truncated von Mises distributions. <i>Progress in Artificial Intelligence</i> , 2017 , 6, 171-180	4.80	1
143	Network design through forests with degree- and role-constrained minimum spanning trees. <i>Journal of Heuristics</i> , 2017 , 23, 31-51	1.9	2
142	Dynamic Bayesian Network-Based Anomaly Detection for In-Process Visual Inspection of Laser Surface Heat Treatment 2017 , 17-24		9
141	Machine Learning-based CPS for Clustering High throughput Machining Cycle Conditions. <i>Procedia Manufacturing</i> , 2017 , 10, 997-1008	1.5	23
140	Dendritic-branching angles of pyramidal neurons of the human cerebral cortex. <i>Brain Structure and Function</i> , 2017 , 222, 1847-1859	4	7
139	Frobenius Norm Regularization for the Multivariate Von Mises Distribution. <i>International Journal of Intelligent Systems</i> , 2017 , 32, 153-176	8.4	2
138	Parkinson's Disease Subtypes Identified from Cluster Analysis of Motor and Non-motor Symptoms. <i>Frontiers in Aging Neuroscience</i> , 2017 , 9, 301	5.3	55
137	Three-dimensional spatial modeling of spines along dendritic networks in human cortical pyramidal neurons. <i>PLoS ONE</i> , 2017 , 12, e0180400	3.7	5
136	Genetic algorithms and Gaussian Bayesian networks to uncover the predictive core set of bibliometric indices. <i>Journal of the Association for Information Science and Technology</i> , 2016 , 67, 1703-1727	12.7	7
135	Laminar Differences in Dendritic Structure of Pyramidal Neurons in the Juvenile Rat Somatosensory Cortex. <i>Cerebral Cortex</i> , 2016 , 26, 2811-2822	5.1	19
134	Decision functions for chain classifiers based on Bayesian networks for multi-label classification. <i>International Journal of Approximate Reasoning</i> , 2016 , 68, 164-178	3.6	8
133	Development of a Cyber-Physical System based on selective Gaussian naïve Bayes model for a self-predict laser surface heat treatment process control 2016 , 1-8		3
132	Tree-Structured Bayesian Networks for Wrapped Cauchy Directional Distributions. <i>Lecture Notes in Computer Science</i> , 2016 , 207-216	0.9	
131	Data Publications Correlate with Citation Impact. <i>Frontiers in Neuroscience</i> , 2016 , 10, 419	5.1	8
130	Wiring Economy of Pyramidal Cells in the Juvenile Rat Somatosensory Cortex. <i>PLoS ONE</i> , 2016 , 11, e0165915	5.15	0

129	Dendritic branching angles of pyramidal cells across layers of the juvenile rat somatosensory cortex. <i>Journal of Comparative Neurology</i> , 2016 , 524, 2567-76	3.4	3
128	Mining multi-dimensional concept-drifting data streams using Bayesian network classifiers. <i>Intelligent Data Analysis</i> , 2016 , 20, 257-280	1.1	11
127	Learning Bayesian networks with low inference complexity. <i>Progress in Artificial Intelligence</i> , 2016 , 5, 15-26	4	5
126	Dendritic and Axonal Wiring Optimization of Cortical GABAergic Interneurons. <i>Neuroinformatics</i> , 2016 , 14, 453-64	3.2	2
125	Recent Advances in Probabilistic Graphical Models. <i>International Journal of Intelligent Systems</i> , 2015 , 30, 207-208	8.4	5
124	Conditional Density Approximations with Mixtures of Polynomials. <i>International Journal of Intelligent Systems</i> , 2015 , 30, 236-264	8.4	2
123	Bayesian network classifiers for categorizing cortical GABAergic interneurons. <i>Neuroinformatics</i> , 2015 , 13, 193-208	3.2	14
122	Classifying GABAergic interneurons with semi-supervised projected model-based clustering. <i>Artificial Intelligence in Medicine</i> , 2015 , 65, 49-59	7.4	11
121	Directional naive Bayes classifiers. <i>Pattern Analysis and Applications</i> , 2015 , 18, 225-246	2.3	16
120	A survey on multi-output regression. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2015 , 5, 216-233	6.9	208
119	The Vallecas Project: A Cohort to Identify Early Markers and Mechanisms of Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2015 , 7, 181	5.3	17
118	A univocal definition of the neuronal soma morphology using Gaussian mixture models. <i>Frontiers in Neuroanatomy</i> , 2015 , 9, 137	3.6	6
117	Guest editors introduction: special issue of the ECMLPKDD 2015 journal track. <i>Data Mining and Knowledge Discovery</i> , 2015 , 29, 1113-1115	5.6	
116	Interval-based ranking in noisy evolutionary multi-objective optimization. <i>Computational Optimization and Applications</i> , 2015 , 61, 517-555	1.4	8
115	Comparing supervised learning methods for classifying sex, age, context and individual Mudi dogs from barking. <i>Animal Cognition</i> , 2015 , 18, 405-21	3.1	14
114	Regularized Multivariate von Mises Distribution. <i>Lecture Notes in Computer Science</i> , 2015 , 25-35	0.9	1
113	Towards Gaussian Bayesian Network Fusion. <i>Lecture Notes in Computer Science</i> , 2015 , 519-528	0.9	
112	Bayesian network modeling of the consensus between experts: An application to neuron classification. <i>International Journal of Approximate Reasoning</i> , 2014 , 55, 3-22	3.6	18

111	Semi-supervised projected model-based clustering. <i>Data Mining and Knowledge Discovery</i> , 2014 , 28, 882-917	9.67	2
110	Random positions of dendritic spines in human cerebral cortex. <i>Journal of Neuroscience</i> , 2014 , 34, 10078-84	8.4	10
109	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2014 , 26, 1720-1733	4.2	31
108	Discrete Bayesian Network Classifiers. <i>ACM Computing Surveys</i> , 2014 , 47, 1-43	13.4	124
107	Multi-label classification with Bayesian network-based chain classifiers. <i>Pattern Recognition Letters</i> , 2014 , 41, 14-22	4.7	74
106	Learning mixtures of polynomials of multidimensional probability densities from data using B-spline interpolation. <i>International Journal of Approximate Reasoning</i> , 2014 , 55, 989-1010	3.6	8
105	Multiobjective Estimation of Distribution Algorithm Based on Joint Modeling of Objectives and Variables. <i>IEEE Transactions on Evolutionary Computation</i> , 2014 , 18, 519-542	15.6	60
104	Three-dimensional spatial distribution of synapses in the neocortex: a dual-beam electron microscopy study. <i>Cerebral Cortex</i> , 2014 , 24, 1579-88	5.1	51
103	Branching angles of pyramidal cell dendrites follow common geometrical design principles in different cortical areas. <i>Scientific Reports</i> , 2014 , 4, 5909	4.9	11
102	Three-dimensional distribution of cortical synapses: a replicated point pattern-based analysis. <i>Frontiers in Neuroanatomy</i> , 2014 , 8, 85	3.6	36
101	Bayesian networks in neuroscience: a survey. <i>Frontiers in Computational Neuroscience</i> , 2014 , 8, 131	3.5	53
100	Multi-dimensional classification of GABAergic interneurons with Bayesian network-modeled label uncertainty. <i>Frontiers in Computational Neuroscience</i> , 2014 , 8, 150	3.5	11
99	PREDICTING THE EQ-5D FROM THE PARKINSON'S DISEASE QUESTIONNAIRE PDQ-8 USING MULTI-DIMENSIONAL BAYESIAN NETWORK CLASSIFIERS. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2014 , 26, 1450015	0.6	6
98	Cost-sensitive selective naive Bayes classifiers for predicting the increase of the h-index for scientific journals. <i>Neurocomputing</i> , 2014 , 135, 42-52	5.4	10
97	Expressive Power of Binary Relevance and Chain Classifiers Based on Bayesian Networks for Multi-label Classification. <i>Lecture Notes in Computer Science</i> , 2014 , 519-534	0.9	
96	Cluster methods for assessing research performance: exploring Spanish computer science. <i>Scientometrics</i> , 2013 , 97, 571-600	3	16
95	Parameter Control of Genetic Algorithms by Learning and Simulation of Bayesian Networks [A Case Study for the Optimal Ordering of Tables. <i>Journal of Computer Science and Technology</i> , 2013 , 28, 720-731	1.7	8
94	Regularized continuous estimation of distribution algorithms. <i>Applied Soft Computing Journal</i> , 2013 , 13, 2412-2432	7.5	18

93	Comparison of metaheuristic strategies for peakbin selection in proteomic mass spectrometry data. <i>Information Sciences</i> , 2013 , 222, 229-246	7.7	11
92	Unveiling relevant non-motor Parkinson's disease severity symptoms using a machine learning approach. <i>Artificial Intelligence in Medicine</i> , 2013 , 58, 195-202	7.4	42
91	Sparse regularized local regression. <i>Computational Statistics and Data Analysis</i> , 2013 , 62, 122-135	1.6	1
90	Predicting dementia development in Parkinson's disease using Bayesian network classifiers. <i>Psychiatry Research - Neuroimaging</i> , 2013 , 213, 92-8	2.9	42
89	Classification of neural signals from sparse autoregressive features. <i>Neurocomputing</i> , 2013 , 111, 21-26	5.4	11
88	New insights into the classification and nomenclature of cortical GABAergic interneurons. <i>Nature Reviews Neuroscience</i> , 2013 , 14, 202-16	13.5	532
87	Relationship among research collaboration, number of documents and number of citations: a case study in Spanish computer science production in 2000-2009. <i>Scientometrics</i> , 2013 , 95, 689-716	3	22
86	A review on evolutionary algorithms in Bayesian network learning and inference tasks. <i>Information Sciences</i> , 2013 , 233, 109-125	7.7	88
85	Predicting human immunodeficiency virus inhibitors using multi-dimensional Bayesian network classifiers. <i>Artificial Intelligence in Medicine</i> , 2013 , 57, 219-29	7.4	29
84	A Survey of L1 Regression. <i>International Statistical Review</i> , 2013 , 81, 361-387	1.4	55
83	Towards optimal neuronal wiring through estimation of distribution algorithms 2013 ,		1
82	AN L1-REGULARIZED NAÏVE BAYES-INSPIRED CLASSIFIER FOR DISCARDING REDUNDANT AND IRRELEVANT PREDICTORS. <i>International Journal on Artificial Intelligence Tools</i> , 2013 , 22, 1350019	0.9	1
81	Bayesian sparse partial least squares. <i>Neural Computation</i> , 2013 , 25, 3318-39	2.9	12
80	Network measures for information extraction in evolutionary algorithms. <i>International Journal of Computational Intelligence Systems</i> , 2013 , 6, 1163-1188	3.4	8
79	Machine learning approach for the outcome prediction of temporal lobe epilepsy surgery. <i>PLoS ONE</i> , 2013 , 8, e62819	3.7	27
78	Classification of neocortical interneurons using affinity propagation. <i>Frontiers in Neural Circuits</i> , 2013 , 7, 185	3.5	22
77	Learning Conditional Linear Gaussian Classifiers with Probabilistic Class Labels. <i>Lecture Notes in Computer Science</i> , 2013 , 139-148	0.9	2
76	Semi-supervised Projected Clustering for Classifying GABAergic Interneurons. <i>Lecture Notes in Computer Science</i> , 2013 , 156-165	0.9	

75	Learning Mixtures of Polynomials of Conditional Densities from Data. <i>Lecture Notes in Computer Science</i> , 2013 , 363-372	0.9	
74	Augmented Semi-naive Bayes Classifier. <i>Lecture Notes in Computer Science</i> , 2013 , 159-167	0.9	
73	Análisis de la actividad científica de las universidades públicas españolas en el área de las tecnologías informáticas. <i>Revista Espanola De Documentacion Cientifica</i> , 2013 , 36, e002	0.7	2
72	Lazy lasso for local regression. <i>Computational Statistics</i> , 2012 , 27, 531-550	1	8
71	Regularized logistic regression and multiobjective variable selection for classifying MEG data. <i>Biological Cybernetics</i> , 2012 , 106, 389-405	2.8	7
70	A review on probabilistic graphical models in evolutionary computation. <i>Journal of Heuristics</i> , 2012 , 18, 795-819	1.9	60
69	Markov blanket-based approach for learning multi-dimensional Bayesian network classifiers: an application to predict the European Quality of Life-5 Dimensions (EQ-5D) from the 39-item Parkinson's Disease Questionnaire (PDQ-39). <i>Journal of Biomedical Informatics</i> , 2012 , 45, 1175-84	10.2	27
68	Ensemble transcript interaction networks: a case study on Alzheimer's disease. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 108, 442-50	6.9	9
67	A new feature extraction method for signal classification applied to cord dorsum potential detection. <i>Journal of Neural Engineering</i> , 2012 , 9, 056009	5	3
66	Biomedical informatics publications: a global perspective. Part II: Journals. <i>Methods of Information in Medicine</i> , 2012 , 51, 131-7	1.5	10
65	Mouse p53-deficient cancer models as platforms for obtaining genomic predictors of human cancer clinical outcomes. <i>PLoS ONE</i> , 2012 , 7, e42494	3.7	7
64	Biomedical informatics publications: a global perspective: part I: conferences. <i>Methods of Information in Medicine</i> , 2012 , 51, 82-90	1.5	11
63	Forward stagewise naïve Bayes. <i>Progress in Artificial Intelligence</i> , 2012 , 1, 57-69	4	3
62	A comparison of clustering quality indices using outliers and noise. <i>Intelligent Data Analysis</i> , 2012 , 16, 703-715	1.1	34
61	Continuous Estimation of Distribution Algorithms Based on Factorized Gaussian Markov Networks. <i>Adaptation, Learning, and Optimization</i> , 2012 , 157-173	0.7	5
60	Predicting the h-index with cost-sensitive naïve Bayes 2011 ,		2
59	Classifying evolving data streams with partially labeled data. <i>Intelligent Data Analysis</i> , 2011 , 15, 655-670	1.1	14
58	A review of representation issues and modeling challenges with influence diagrams. <i>Omega</i> , 2011 , 39, 227-241	7.2	21

57	Optimal row and column ordering to improve table interpretation using estimation of distribution algorithms. <i>Journal of Heuristics</i> , 2011 , 17, 567-588	1.9	4
56	Using Bayesian networks to discover relationships between bibliometric indices. A case study of computer science and artificial intelligence journals. <i>Scientometrics</i> , 2011 , 89, 523-551	3	8
55	Optimizing brain networks topologies using multi-objective evolutionary computation. <i>Neuroinformatics</i> , 2011 , 9, 3-19	3.2	9
54	Models and simulation of 3D neuronal dendritic trees using Bayesian networks. <i>Neuroinformatics</i> , 2011 , 9, 347-69	3.2	16
53	Comparison between supervised and unsupervised classifications of neuronal cell types: a case study. <i>Developmental Neurobiology</i> , 2011 , 71, 71-82	3.2	63
52	Regularized logistic regression without a penalty term: An application to cancer classification with microarray data. <i>Expert Systems With Applications</i> , 2011 , 38, 5110-5118	7.8	42
51	Peakbin selection in mass spectrometry data using a consensus approach with estimation of distribution algorithms. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2011 , 8, 760-74	3	22
50	Dealing with complex queries in decision-support systems. <i>Data and Knowledge Engineering</i> , 2011 , 70, 167-181	1.5	
49	Multi-dimensional classification with Bayesian networks. <i>International Journal of Approximate Reasoning</i> , 2011 , 52, 705-727	3.6	125
48	Affinity propagation enhanced by estimation of distribution algorithms 2011 ,		2
47	Regularized k-order markov models in EDAs 2011 ,		1
46	On nonlinearity in neural encoding models applied to the primary visual cortex. <i>Network: Computation in Neural Systems</i> , 2011 , 22, 97-125	0.7	
45	Multi-objective Optimization with Joint Probabilistic Modeling of Objectives and Variables. <i>Lecture Notes in Computer Science</i> , 2011 , 298-312	0.9	5
44	The von Mises Naive Bayes Classifier for Angular Data. <i>Lecture Notes in Computer Science</i> , 2011 , 145-154	0.9	1
43	Bivariate empirical and n-variate Archimedean copulas in estimation of distribution algorithms 2010 ,		11
42	Evaluation by data mining techniques of fluconazole breakpoints established by the Clinical and Laboratory Standards Institute (CLSI) and comparison with those of the European Committee on Antimicrobial Susceptibility Testing (EUCAST). <i>Antimicrobial Agents and Chemotherapy</i> , 2010 , 54, 1541-6	5.9	15
41	Learning an L1-regularized Gaussian Bayesian network in the equivalence class space. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2010 , 40, 1231-42		12
40	Modeling challenges with influence diagrams: Constructing probability and utility models. <i>Decision Support Systems</i> , 2010 , 49, 354-364	5.6	17

39	Multidimensional statistical analysis of the parameterization of a genetic algorithm for the optimal ordering of tables. <i>Expert Systems With Applications</i> , 2010 , 37, 804-815	7.8	4
38	Mateda-2.0: AMATLABPackage for the Implementation and Analysis of Estimation of Distribution Algorithms. <i>Journal of Statistical Software</i> , 2010 , 35,	7.3	31
37	Using Probabilistic Dependencies Improves the Search of Conductance-Based Compartmental Neuron Models. <i>Lecture Notes in Computer Science</i> , 2010 , 170-181	0.9	1
36	Mining Concept-Drifting Data Streams Containing Labeled and Unlabeled Instances. <i>Lecture Notes in Computer Science</i> , 2010 , 531-540	0.9	6
35	Synergies between Network-Based Representation and Probabilistic Graphical Models for Classification, Inference and Optimization Problems in Neuroscience. <i>Lecture Notes in Computer Science</i> , 2010 , 149-158	0.9	1
34	Estimation of distribution algorithms as logistic regression regularizers of microarray classifiers. <i>Methods of Information in Medicine</i> , 2009 , 48, 236-41	1.5	8
33	Data mining validation of fluconazole breakpoints established by the European Committee on Antimicrobial Susceptibility Testing. <i>Antimicrobial Agents and Chemotherapy</i> , 2009 , 53, 2949-54	5.9	21
32	Predicting citation count of Bioinformatics papers within four years of publication. <i>Bioinformatics</i> , 2009 , 25, 3303-9	7.2	29
31	Mining probabilistic models learned by EDAs in the optimization of multi-objective problems 2009 ,		10
30	Comparison of Bayesian networks and artificial neural networks for quality detection in a machining process. <i>Expert Systems With Applications</i> , 2009 , 36, 7270-7279	7.8	116
29	Probabilistic Graphical Markov Model Learning: An Adaptive Strategy. <i>Lecture Notes in Computer Science</i> , 2009 , 225-236	0.9	3
28	Explaining clinical decisions by extracting regularity patterns. <i>Decision Support Systems</i> , 2008 , 44, 397-403.	3.6	10
27	A Bayesian network model for surface roughness prediction in the machining process. <i>International Journal of Systems Science</i> , 2008 , 39, 1181-1192	2.3	36
26	Optimizing logistic regression coefficients for discrimination and calibration using estimation of distribution algorithms. <i>Top</i> , 2008 , 16, 345-366	1.3	7
25	A review of estimation of distribution algorithms in bioinformatics. <i>BioData Mining</i> , 2008 , 1, 6	4.3	46
24	A graphical decision-theoretic model for neonatal jaundice. <i>Medical Decision Making</i> , 2007 , 27, 250-65	2.5	22
23	Machine learning in bioinformatics. <i>Briefings in Bioinformatics</i> , 2006 , 7, 86-112	13.4	484
22	A decision approach to competitive electronic sealed-bid auctions for land. <i>Journal of the Operational Research Society</i> , 2006 , 57, 1126-1133	2	1

21	A list-based compact representation for large decision tables management. <i>European Journal of Operational Research</i> , 2005 , 160, 638-662	5.6	8
20	Approximating nondominated sets in continuous multiobjective optimization problems. <i>Naval Research Logistics</i> , 2005 , 52, 469-480	1.5	13
19	Node deletion sequences in influence diagrams using genetic algorithms. <i>Statistics and Computing</i> , 2004 , 14, 181-198	1.8	5
18	Hierarchical Junction Trees: Conditional Independence Preservation and Forecasting in Dynamic Bayesian Networks with Heterogeneous Evolution. <i>Studies in Fuzziness and Soft Computing</i> , 2004 , 57-75	0.7	1
17	Optimal Decision Explanation by Extracting Regularity Patterns 2004 , 283-294		0
16	COMPROMISE-BASED APPROACH TO ROAD PROJECT SELECTION IN MADRID METROPOLITAN AREA. <i>Journal of the Operations Research Society of Japan</i> , 2003 , 46, 99-122	0.3	7
15	Logistic regression for simulating damage occurrence on a fruit grading line. <i>Computers and Electronics in Agriculture</i> , 2003 , 39, 95-113	6.5	10
14	Finding and Explaining Optimal Treatments. <i>Lecture Notes in Computer Science</i> , 2003 , 299-303	0.9	4
13	An Interactive Framework for Open Queries in Decision Support Systems. <i>Lecture Notes in Computer Science</i> , 2002 , 254-264	0.9	
12	Structural, elicitation and computational issues faced when solving complex decision making problems with influence diagrams. <i>Computers and Operations Research</i> , 2000 , 27, 725-740	4.6	16
11	Implementation of IctNeo: a Decision Support System for Jaundice Management 2000 , 554-559		
10	Multiattribute Utility Analysis in the IctNeo System. <i>Lecture Notes in Economics and Mathematical Systems</i> , 2000 , 81-92	0.4	2
9	Sensitivity Analysis in IctNeo. <i>Lecture Notes in Statistics</i> , 2000 , 317-334	2.9	5
8	Influence Diagrams for Neonatal Jaundice Management. <i>Lecture Notes in Computer Science</i> , 1999 , 138-142	0.9	1
7	Decision Analysis by Augmented Probability Simulation. <i>Management Science</i> , 1999 , 45, 995-1007	3.9	43
6	A Comparison of Graphical Techniques for Asymmetric Decision Problems. <i>Management Science</i> , 1999 , 45, 1552-1569	3.9	39
5	On time-dependent wavelet denoising. <i>IEEE Transactions on Signal Processing</i> , 1998 , 46, 2549-2554	4.8	39
4	Learning massive interpretable gene regulatory networks of the human brain by merging Bayesian Networks		1

3	Comparing the electrophysiology and morphology of human and mouse layer 2/3 pyramidal neurons with Bayesian networks	1
2	Observational Study of the Efficiency of Treatments in Patients Hospitalized with Covid-19 in Madrid	5
1	Hybrid semiparametric Bayesian networks. <i>Test</i> ,	1.1 2