Veronica Bolon-Canedo

List of Publications by Year
in descending order

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92 papers	4,529 citations	147566 31 h-index	106150 65 g-index
96 all docs	96 docs citations	96 times ranked	3812 citing authors

#	Article	IF	Citations
1	A review of feature selection methods on synthetic data. Knowledge and Information Systems, 2013, 34, 483-519.	2.1	563
2	A review of microarray datasets and applied feature selection methods. Information Sciences, 2014, 282, 111-135.	4.0	507
3	A review of feature selection methods in medical applications. Computers in Biology and Medicine, 2019, 112, 103375.	3.9	393
4	Ensembles for feature selection: A review and future trends. Information Fusion, 2019, 52, 1-12.	11.7	327
5	Recent advances and emerging challenges of feature selection in the context of big data. Knowledge-Based Systems, 2015, 86, 33-45.	4.0	219
6	Ensemble feature selection: Homogeneous and heterogeneous approaches. Knowledge-Based Systems, 2017, 118, 124-139.	4.0	196
7	An ensemble of filters and classifiers for microarray data classification. Pattern Recognition, 2012, 45, 531-539.	5.1	172
8	Feature selection and classification in multiple class datasets: An application to KDD Cup 99 dataset. Expert Systems With Applications, 2011, 38, 5947-5957.	4.4	166
9	Distributed feature selection: An application to microarray data classification. Applied Soft Computing Journal, 2015, 30, 136-150.	4.1	154
10	Feature Selection for High-Dimensional Data. The Artificial Intelligence: Foundationsory, and Algorithms, 2015, , .	0.2	141
11	Fast-mRMR: Fast Minimum Redundancy Maximum Relevance Algorithm for High-Dimensional Big Data. International Journal of Intelligent Systems, 2017, 32, 134-152.	3.3	125
12	Computer-Based Image Analysis for Plus Disease Diagnosis in Retinopathy of Prematurity: Performance of the â€œi-ROPâ€•System and Image Features Associated With Expert Diagnosis. Translational Vision Science and Technology, 2015, 4, 5.	1.1	105
13	Data discretization: taxonomy and big data challenge. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2016, 6, 5-21.	4.6	105
14	Feature selection for high-dimensional data. Progress in Artificial Intelligence, 2016, 5, 65-75.	1.5	97
15	Expert Diagnosis of Plus Disease in Retinopathy of Prematurity From Computer-Based Image Analysis. JAMA Ophthalmology, 2016, 134, 651.	1.4	95
16	Data classification using an ensemble of filters. Neurocomputing, 2014, 135, 13-20.	3.5	78
17	On developing an automatic threshold applied to feature selection ensembles. Information Fusion, 2019, 45, 227-245.	11.7	73
18	A framework for cost-based feature selection. Pattern Recognition, 2014, 47, 2481-2489.	5.1	70

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19	Feature selection in image analysis: a survey. Artificial Intelligence Review, 2020, 53, 2905-2931.	9.7	67
20	On the use of feature selection to improve the detection of sea oil spills in SAR images. Computers and Geosciences, 2017, 100, 166-178.	2.0	56
21	An Information Theory-Based Feature Selection Framework for Big Data Under Apache Spark. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1441-1453.	5.9	55
22	Centralized vs. distributed feature selection methods based on data complexity measures. Knowledge-Based Systems, 2017, 117, 27-45.	4.0	53
23	Testing Different Ensemble Configurations for Feature Selection. Neural Processing Letters, 2017, 46, 857-880.	2.0	47
24	Big-Data Analysis, Cluster Analysis, and Machine-Learning Approaches. Advances in Experimental Medicine and Biology, 2018, 1065, 607-626.	0.8	41
25	Dealing with inter-expert variability in retinopathy of prematurity: A machine learning approach. Computer Methods and Programs in Biomedicine, 2015, 122, 1-15.	2.6	36
26	Multithreaded and Spark parallelization of feature selection filters. Journal of Computational Science, 2016, 17, 609-619.	1.5	35
27	A comparison of performance of K-complex classification methods using feature selection. Information Sciences, 2016, 328, 1-14.	4.0	35
28	Can classification performance be predicted by complexity measures? A study using microarray data. Knowledge and Information Systems, 2017, 51, 1067-1090.	2.1	33
29	Data analysis and feature selection for predictive maintenance: A case-study in the metallurgic industry. International Journal of Information Management, 2019, 46, 252-262.	10.5	33
30	A Methodology for Improving Tear Film Lipid Layer Classification. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1485-1493.	3.9	32
31	Performance evaluation of unsupervised techniques in cyber-attack anomaly detection. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 4477-4489.	3.3	32
32	On the scalability of feature selection methods on high-dimensional data. Knowledge and Information Systems, 2018, 56, 395-442.	2.1	31
33	On the effectiveness of discretization on gene selection of microarray data. , 2010, , .		24
34	A combination of discretization and filter methods for improving classification performance in KDD Cup 99 dataset. , 2009, , .		20
35	Exploring Guidelines for Classification of Major Heart Failure Subtypes by Using Machine Learning. Clinical Medicine Insights: Cardiology, 2015, 9s1, CMC.S18746.	0.6	20
36	Distributed Entropy Minimization Discretizer for Big Data Analysis under Apache Spark. , 2015, , .		17

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37	Ensemble Feature Selection for Rankings of Features. Lecture Notes in Computer Science, 2015, , 29-42.	1.0	16
38	A Review of Microarray Datasets: Where to Find Them and Specific Characteristics. Methods in Molecular Biology, 2019, 1986, 65-85.	0.4	16
39	Biases in feature selection with missing data. Neurocomputing, 2019, 342, 97-112.	3.5	16
40	Challenges and Future Trends for Microarray Analysis. Methods in Molecular Biology, 2019, 1986, 283-293.	0.4	14
41	A study of performance on microarray data sets for a classifier based on information theoretic learning. Neural Networks, 2011, 24, 888-96.	3.3	11
42	A unified pipeline for online feature selection and classification. Expert Systems With Applications, 2016, 55, 532-545.	4.4	11
43	Using Data Complexity Measures for Thresholding in Feature Selection Rankers. Lecture Notes in Computer Science, 2016, , 121-131.	1.0	11
44	Toward the scalability of neural networks through feature selection. Expert Systems With Applications, 2013, 40, 2807-2816.	4.4	10
45	Exploring the consequences of distributed feature selection in DNA microarray data. , 2017, , .		9
46	Parallel feature selection for distributed-memory clusters. Information Sciences, 2019, 496, 399-409.	4.0	9
47	A scalable saliency-based feature selection method with instance-level information. Knowledge-Based Systems, 2020, 192, 105326.	4.0	9
48	A Distributed Feature Selection Approach Based on a Complexity Measure. Lecture Notes in Computer Science, 2015, , 15-28.	1.0	8
49	Insights into distributed feature ranking. Information Sciences, 2019, 496, 378-398.	4.0	8
50	How important is data quality? Best classifiers vs best features. Neurocomputing, 2022, 470, 365-375.	3.5	8
51	Multiclass classifiers vs multiple binary classifiers using filters for feature selection. , 2010, , .		7
52	A GMM-based feature extraction technique for the automated diagnosis of Retinopathy of Prematurity. , 2015, , .		7
53	Foundations of Feature Selection. The Artificial Intelligence: Foundationsory, and Algorithms, 2015, , 13-28.	0.2	6
54	An insight on complexity measures and classification in microarray data. , 2015, , .		6

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55	Feature selection with limited bit depth mutual information for portable embedded systems. Knowledge-Based Systems, 2020, 197, 105885.	4.0	6
56	A Time Efficient Approach for Distributed Feature Selection Partitioning by Features. Lecture Notes in Computer Science, 2015, , 245-254.	1.0	5
57	CUDA-JMI: Acceleration of feature selection on heterogeneous systems. Future Generation Computer Systems, 2020, 102, 426-436.	4.9	5
58	Evaluation of Ensembles for Feature Selection. Intelligent Systems Reference Library, 2018, , 97-113.	1.0	5
59	On the behavior of feature selection methods dealing with noise and relevance over synthetic scenarios. , 2011, , .		4
60	A Critical Review of Feature Selection Methods. The Artificial Intelligence: Foundationsory, and Algorithms, 2015, , 29-60.	0.2	4
61	On the use of different base classifiers in multiclass problems. Progress in Artificial Intelligence, 2017, 6, 315-323.	1.5	4
62	Dealing with heterogeneity in the context of distributed feature selection for classification. Knowledge and Information Systems, 2021, 63, 233-276.	2.1	4
63	Scaling Up Feature Selection: A Distributed Filter Approach. Lecture Notes in Computer Science, 2013, , 121-130.	1.0	4
64	Feature Selection: FromÂtheÂPast toÂtheÂFuture. Learning and Analytics in Intelligent Systems, 2022, , 11-34.	0.5	4
65	Anomaly Detection on Natural Language Processing to Improve Predictions on Tourist Preferences. Electronics (Switzerland), 2022, 11, 779.	1.8	4
66	Interferential Tear Film Lipid Layer Classification: An Automatic Dry Eye Test. , 2012, , .		3
67	Real-Time Tear Film Classification Through Cost-Based Feature Selection. Lecture Notes in Computer Science, 2015, , 78-98.	1.0	3
68	Distributed classification based on distances between probability distributions in feature space. Information Sciences, 2019, 496, 431-450.	4.0	3
69	Scalability Analysis of ANN Training Algorithms with Feature Selection. Lecture Notes in Computer Science, 2011, , 84-93.	1.0	3
70	Up-to-Date Feature Selection Methods for Scalable and Efficient Machine Learning. , 2013, , 1-26.		3
71	Preprocessing in High Dimensional Datasets. Intelligent Systems Reference Library, 2018, , 247-271.	1.0	2
72	Feature Selection for Big Visual Data: Overview and Challenges. Lecture Notes in Computer Science, 2018, , 136-143.	1.0	2

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73	An Agent-Based Prototype for Enhancing Sustainability Behavior at an Academic Environment. Advances in Intelligent and Soft Computing, 2012, , 257-264.	0.2	2
74	Feature Selection. Intelligent Systems Reference Library, 2018, , 13-37.	1.0	2
75	Case Study of Anomaly Detection and Quality Control of Energy Efficiency and Hygrothermal Comfort in Buildings. , 2019, , .		2
76	Local Modeling Classifier for Microarray Gene-Expression Data. Lecture Notes in Computer Science, 2010, , 11-20.	1.0	1
77	Toward an ensemble of filters for classification. , 2011, , .		1
78	Paving the way for providing teaching feedback in automatic evaluation of open response assignments. , 2017, , .		1
79	Feature Selection Applied to Microarray Data. Methods in Molecular Biology, 2019, 1986, 123-152.	0.4	1
80	Dimensionality Reduction: Is Feature Selection More Effective Than Random Selection?. Lecture Notes in Computer Science, 2021, , 113-125.	1.0	1
81	Selection of the Best Base Classifier in One-Versus-One Using Data Complexity Measures. Lecture Notes in Computer Science, 2016, , 110-120.	1.0	1
82	Ensembles for Feature Selection. Intelligent Systems Reference Library, 2018, , 53-81.	1.0	1
83	When Size Matters: Markov Blanket with Limited Bit Depth Conditional Mutual Information. Communications in Computer and Information Science, 2020, , 243-255.	0.4	1
84	Emerging Challenges. Intelligent Systems Reference Library, 2018, , 173-205.	1.0	0
85	Foundations of Ensemble Learning. Intelligent Systems Reference Library, 2018, , 39-51.	1.0	0
86	Case Studies to Demonstrate Real-World Applications in Ophthalmic Image Analysis. Intelligent Systems Reference Library, 2022, , 83-125.	1.0	0
87	Feature Selection and Conversion Methods in KDD Cup 99 Dataset: A Comparison of Performance. , 2010, , .		0
88	Software Tools. Intelligent Systems Reference Library, 2018, , 157-171.	1.0	0
89	Other Ensemble Approaches. Intelligent Systems Reference Library, 2018, , 115-138.	1.0	0
90	Applications of Ensembles Versus Traditional Approaches: Experimental Results. Intelligent Systems Reference Library, 2018, , 139-156.	1.0	0

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91	Combination of Outputs. Intelligent Systems Reference Library, 2018, , 83-96.	1.0	0
92	Low-precision feature selection on microarray data: an information theoretic approach. Medical and Biological Engineering and Computing, 2022, 60, 1333.	1.6	0