

Jerzy Stefanowski

List of Publications by Year in descending order

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114
papers

5,453
citations

159358

30
h-index

95083

68
g-index

123
all docs

123
docs citations

123
times ranked

3164
citing authors

#	ARTICLE	IF	CITATIONS
1	Ensemble learning for data stream analysis: A survey. Information Fusion, 2017, 37, 132-156.	11.7	724
2	SMOTE+IPF: Addressing the noisy and borderline examples problem in imbalanced classification by a re-sampling method with filtering. Information Sciences, 2015, 291, 184-203.	4.0	413
3	Incomplete Information Tables and Rough Classification. Computational Intelligence, 2001, 17, 545-566.	2.1	328
4	Reacting to Different Types of Concept Drift: The Accuracy Updated Ensemble Algorithm. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 81-94.	7.2	316
5	Open challenges for data stream mining research. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2014, 16, 1-10.	3.2	215
6	On the Extension of Rough Sets under Incomplete Information. Lecture Notes in Computer Science, 1999, , 73-81.	1.0	197
7	Types of minority class examples and their influence on learning classifiers from imbalanced data. Journal of Intelligent Information Systems, 2016, 46, 563-597.	2.8	189
8	Lingo: Search Results Clustering Algorithm Based on Singular Value Decomposition. , 2004, , 359-368.		170
9	Local neighbourhood extension of SMOTE for mining imbalanced data. , 2011, , .		165
10	Neighbourhood sampling in bagging for imbalanced data. Neurocomputing, 2015, 150, 529-542.	3.5	160
11	Combining block-based and online methods in learning ensembles from concept drifting data streams. Information Sciences, 2014, 265, 50-67.	4.0	135
12	Learning from Imbalanced Data in Presence of Noisy and Borderline Examples. Lecture Notes in Computer Science, 2010, , 158-167.	1.0	130
13	Rough classification in incomplete information systems. Mathematical and Computer Modelling, 1989, 12, 1347-1357.	2.0	122
14	Selective Pre-processing of Imbalanced Data for Improving Classification Performance. Lecture Notes in Computer Science, 2008, , 283-292.	1.0	118
15	Three discretization methods for rule induction. International Journal of Intelligent Systems, 2001, 16, 29-38.	3.3	93
16	Prequential AUC: properties of the area under the ROC curve for data streams with concept drift. Knowledge and Information Systems, 2017, 52, 531-562.	2.1	88
17	An Algorithm for Induction of Decision Rules Consistent with the Dominance Principle. Lecture Notes in Computer Science, 2001, , 304-313.	1.0	85
18	Accuracy Updated Ensemble for Data Streams with Concept Drift. Lecture Notes in Computer Science, 2011, , 155-163.	1.0	83

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19	Rough sets approach to analysis of data from peritoneal lavage in acute pancreatitis. Medical Informatics = Medecine Et Informatique, 1988, 13, 143-159.	0.8	77
20	Induction of decision rules in classification and discovery-oriented perspectives. International Journal of Intelligent Systems, 2001, 16, 13-27.	3.3	77
21	ROUGH-SET REASONING ABOUT UNCERTAIN DATA. Fundamenta Informaticae, 1996, 27, 229-243.	0.3	70
22	Dealing with Data Difficulty Factors While Learning from Imbalanced Data. Studies in Computational Intelligence, 2016, , 333-363.	0.7	60
23	Evaluation of vibroacoustic diagnostic symptoms by means of the rough sets theory. Computers in Industry, 1992, 20, 141-152.	5.7	58
24	Multi-class and feature selection extensions of Roughly Balanced Bagging for imbalanced data. Journal of Intelligent Information Systems, 2018, 50, 97-127.	2.8	58
25	Discriminant versus rough sets approach to vague data analysis. Applied Stochastic Models and Data Analysis, 1992, 8, 43-56.	0.6	56
26	BRACID: a comprehensive approach to learning rules from imbalanced data. Journal of Intelligent Information Systems, 2012, 39, 335-373.	2.8	56
27	Integrating Selective Pre-processing of Imbalanced Data with Ivotes Ensemble. Lecture Notes in Computer Science, 2010, , 148-157.	1.0	55
28	â€˜Roughdasâ€™™ and â€˜Roughclassâ€™™ Software Implementations of the Rough Sets Approach. , 1992, , 445-456.		55
29	A Comparison of Two Approaches to Data Mining from Imbalanced Data. Journal of Intelligent Manufacturing, 2005, 16, 565-573.	4.4	50
30	Carrot2 and Language Properties in Web Search Results Clustering. , 2003, , 240-249.		49
31	Overlapping, Rare Examples and Class Decomposition in Learning Classifiers from Imbalanced Data. Smart Innovation, Systems and Technologies, 2013, , 277-306.	0.5	48
32	Identification of Different Types of Minority Class Examples in Imbalanced Data. Lecture Notes in Computer Science, 2012, , 139-150.	1.0	38
33	Feature subset selection for classification of histological images. Artificial Intelligence in Medicine, 1997, 9, 227-239.	3.8	35
34	On Combined Classifiers, Rule Induction and Rough Sets. , 2007, , 329-350.		34
35	On the Dynamics of Classification Measures for Imbalanced and Streaming Data. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2868-2878.	7.2	33
36	Visual-based analysis of classification measures and their properties for class imbalanced problems. Information Sciences, 2018, 462, 242-261.	4.0	32

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37	Valued Tolerance and Decision Rules. Lecture Notes in Computer Science, 2001, , 212-219.	1.0	30
38	Handling Various Types of Uncertainty in the Rough Set Approach. Workshops in Computing, 1994, , 366-376.	0.4	29
39	Using Information on Class Interrelations to Improve Classification of Multiclass Imbalanced Data: A New Resampling Algorithm. International Journal of Applied Mathematics and Computer Science, 2019, 29, 769-781.	1.5	27
40	Rough sets analysis of diagnostic capacity of vibroacoustic symptoms. Computers and Mathematics With Applications, 1992, 24, 109-123.	1.4	26
41	Extending Bagging for Imbalanced Data. Advances in Intelligent Systems and Computing, 2013, , 269-278.	0.5	25
42	Exploring complex and big data. International Journal of Applied Mathematics and Computer Science, 2017, 27, 669-679.	1.5	25
43	Incremental versus Non-incremental Rule Induction for Multicriteria Classification. Lecture Notes in Computer Science, 2004, , 33-53.	1.0	25
44	What makes multi-class imbalanced problems difficult? An experimental study. Expert Systems With Applications, 2022, 199, 116962.	4.4	25
45	Addressing imbalanced data with argument based rule learning. Expert Systems With Applications, 2015, 42, 9468-9481.	4.4	24
46	Prequential AUC for Classifier Evaluation and Drift Detection in Evolving Data Streams. Lecture Notes in Computer Science, 2015, , 87-101.	1.0	23
47	The impact of data difficulty factors on classification of imbalanced and concept drifting data streams. Knowledge and Information Systems, 2021, 63, 1429-1469.	2.1	22
48	Data stream classification and big data analytics. Neurocomputing, 2015, 150, 238-239.	3.5	21
49	A General Two-Stage Approach to Inducing Rules from Examples. Workshops in Computing, 1994, , 317-325.	0.4	19
50	Evaluating business credit risk by means of approach-integrating decision rules and case-based learning. Intelligent Systems in Accounting, Finance and Management, 2001, 10, 97-114.	2.8	17
51	Managing Borderline and Noisy Examples in Imbalanced Classification by Combining SMOTE with Ensemble Filtering. Lecture Notes in Computer Science, 2014, , 61-68.	1.0	17
52	Big Data Analysis: New Algorithms for a New Society. Studies in Big Data, 2016, , .	0.8	16
53	A Comparison of Two Approaches to Data Mining from Imbalanced Data. Lecture Notes in Computer Science, 2004, , 757-763.	1.0	15
54	Local Data Characteristics in Learning Classifiers from Imbalanced Data. Studies in Computational Intelligence, 2018, , 51-85.	0.7	15

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55	The Bagging and n 2-Classifiers Based on Rules Induced by MODLEM. Lecture Notes in Computer Science, 2004, , 488-497.	1.0	13
56	Web Search Results Clustering in Polish: Experimental Evaluation of Carrot. , 2003, , 209-219.		13
57	Rough set theory and rule induction techniques for discovery of attribute dependencies in medical information systems. Lecture Notes in Computer Science, 1997, , 36-46.	1.0	12
58	Handling Continuous Attributes in Discovery of Strong Decision Rules. Lecture Notes in Computer Science, 1998, , 394-401.	1.0	11
59	Application of Preprocessing Methods to Imbalanced Clinical Data: An Experimental Study. Advances in Intelligent Systems and Computing, 2016, , 503-515.	0.5	11
60	Ensemble Classifiers for Imbalanced and Evolving Data Streams. Series in Machine Perception and Artificial Intelligence, 2018, , 44-68.	0.1	11
61	Ensemble Diversity in Evolving Data Streams. Lecture Notes in Computer Science, 2016, , 229-244.	1.0	11
62	Rough Set Theory and Decision Rules in Data Analysis of Breast Cancer Patients. Lecture Notes in Computer Science, 2004, , 375-391.	1.0	10
63	Ivotes ensemble for imbalanced data. Intelligent Data Analysis, 2012, 16, 777-801.	0.4	10
64	A Machine Learning Perspective on Big Data Analysis. Studies in Big Data, 2016, , 1-31.	0.8	10
65	Variable Consistency Bagging Ensembles. Lecture Notes in Computer Science, 2010, , 40-52.	1.0	10
66	Stream Classification. , 2017, , 1191-1199.		9
67	Comparison of the Rough Sets Approach and Probabilistic Data Analysis Techniques on a Common Set of Medical Data. , 1992, , 251-265.		9
68	Rough Sets as a Tool for Studying Attribute Dependencies in the Urinary Stones Treatment Data Set. , 1997, , 177-196.		9
69	Extending Rule-Based Classifiers to Improve Recognition of Imbalanced Classes. Studies in Computational Intelligence, 2009, , 131-154.	0.7	8
70	Ensembles of Abstaining Classifiers Based on Rule Sets. Lecture Notes in Computer Science, 2009, , 382-391.	1.0	8
71	An experimental evaluation of improving rule based classifiers with two approaches that change representations of learning examples. Engineering Applications of Artificial Intelligence, 2004, 17, 439-445.	4.3	7
72	Importance and Interaction of Conditions in Decision Rules. Lecture Notes in Computer Science, 2002, , 255-262.	1.0	6

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73	Mining Context Based Sequential Patterns. Lecture Notes in Computer Science, 2005, , 401-407.	1.0	6
74	Evaluating Importance of Conditions in the Set of Discovered Rules. Lecture Notes in Computer Science, 2007, , 314-321.	1.0	6
75	Ordinal Classification with Monotonicity Constraints by Variable Consistency Bagging. Lecture Notes in Computer Science, 2010, , 392-401.	1.0	6
76	Classification Support Based on the Rough Sets Theory. Lecture Notes in Economics and Mathematical Systems, 1993, , 185-192.	0.3	6
77	Processing and mining complex data streams. Information Sciences, 2014, 285, 63-65.	4.0	5
78	Abstaining in rule set bagging for imbalanced data. Logic Journal of the IGPL, 2015, 23, 421-430.	1.3	5
79	Discovering Minority Sub-clusters and Local Difficulty Factors from Imbalanced Data. Lecture Notes in Computer Science, 2017, , 324-339.	1.0	5
80	An Algorithm for Selective Preprocessing of Multi-class Imbalanced Data. Advances in Intelligent Systems and Computing, 2018, , 238-247.	0.5	5
81	Evaluating Difficulty of Multi-class Imbalanced Data. Lecture Notes in Computer Science, 2017, , 312-322.	1.0	5
82	Increasing the Interpretability of Rules Induced from Imbalanced Data by Using Bayesian Confirmation Measures. Lecture Notes in Computer Science, 2017, , 84-98.	1.0	5
83	Analysis of Diagnostic Symptoms in Vibroacoustic Diagnostics by Means of the Rough Sets Theory. , 1992, , 33-48.		5
84	The Usefulness of Roughly Balanced Bagging for Complex and High-Dimensional Imbalanced Data. Lecture Notes in Computer Science, 2016, , 93-107.	1.0	4
85	Argument Based Generalization of MODLEM Rule Induction Algorithm. Lecture Notes in Computer Science, 2010, , 138-147.	1.0	4
86	Bagging and Induction of Decision Rules. , 2002, , 121-130.		4
87	Multistage Rough Set Analysis of Therapeutic Experience with Acute Pancreatitis. Studies in Fuzziness and Soft Computing, 1998, , 272-294.	0.6	4
88	An Experimental Study of Using Rule Induction Algorithm in Combiner Multiple Classifier. International Journal of Computational Intelligence Research, 2007, 3, .	0.3	4
89	Induction of Decision Rules and Classification in the Valued Tolerance Approach. Lecture Notes in Computer Science, 2002, , 271-278.	1.0	4
90	The rough sets approach to knowledge analysis for classification support in technical diagnostics of mechanical objects. , 1992, , 556-565.		3

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91	Post-processing of BRACID Rules Induced from Imbalanced Data. Fundamenta Informaticae, 2016, 148, 51-64.	0.3	3
92	Time Aspect in Making an Actionable Prediction of a Conversation Breakdown. Lecture Notes in Computer Science, 2021, , 351-364.	1.0	3
93	Stream Classification. , 2016, , 1-9.		3
94	Local Characteristics of Minority Examples in Pre-processing of Imbalanced Data. Lecture Notes in Computer Science, 2014, , 123-132.	1.0	3
95	Combining Answers of Sub-classifiers in the Bagging-Feature Ensembles. Lecture Notes in Computer Science, 2007, , 574-583.	1.0	3
96	RILL: Algorithm for Learning Rules from Streaming Data with Concept Drift. Lecture Notes in Computer Science, 2014, , 20-29.	1.0	2
97	The Impact of Local Data Characteristics on Learning from Imbalanced Data. Lecture Notes in Computer Science, 2014, , 1-13.	1.0	2
98	Final Remarks on Big Data Analysis and Its Impact on Society and Science. Studies in Big Data, 2016, , 305-329.	0.8	2
99	Machine Learning and Knowledge Discovery in Databases. Lecture Notes in Computer Science, 2017, , .	1.0	2
100	Induction of decision rules in classification and discovery-oriented perspectives. International Journal of Intelligent Systems, 2001, 16, 13-27.	3.3	2
101	On Properties of Undersampling Bagging and Its Extensions for Imbalanced Data. Advances in Intelligent Systems and Computing, 2016, , 407-417.	0.5	2
102	On using rule induction in multiple classifiers with a combiner aggregation strategy. , 2005, , .		1
103	Consistency Driven Feature Subspace Aggregating for Ordinal Classification. Lecture Notes in Computer Science, 2016, , 580-589.	1.0	1
104	Improving Bagging-Ensembles for Class Imbalanced Data by Active-Learning. Intelligent Systems Reference Library, 2018, , 25-52.	1.0	1
105	Classification of Multi-class Imbalanced Data: Data Difficulty Factors and Selected Methods for Improving Classifiers. Lecture Notes in Computer Science, 2021, , 57-72.	1.0	1
106	Actively Balanced Bagging for Imbalanced Data. Lecture Notes in Computer Science, 2017, , 271-281.	1.0	1
107	ROUGH CLASSIFICATION IN INCOMPLETE INFORMATION SYSTEMS. , 1989, , 1347-1357.		1
108	Artificial Intelligence Research Community and Associations in Poland. Foundations of Computing and Decision Sciences, 2020, 45, 159-177.	0.5	1

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109	Rule Confirmation Measures: Properties, Visual Analysis and Applications. Multiple Criteria Decision Making, 2022, , 401-423.	0.6	1
110	Combined learning methods and mining complex data. Intelligent Data Analysis, 2012, 16, 741-743.	0.4	0
111	Adaptive Ensembles for Evolving Data Streams “ Combining Block-Based and Online Solutions. Lecture Notes in Computer Science, 2016, , 3-16.	1.0	0
112	Incremental Rule Induction for Multicriteria and Multiattribute Classification. , 2003, , 311-319.		0
113	Modifications of Classification Strategies in Rule Set Based Bagging for Imbalanced Data. Lecture Notes in Computer Science, 2012, , 514-525.	1.0	0
114	In memoriam Professor Solomon Marcus. Foundations of Computing and Decision Sciences, 2016, 41, 95-97.	0.5	0