Jerzy Stefanowski

List of Publications by Citations

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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.

118 papers	3,837 citations	32 h-index	60 g-index
123 ext. papers	4,547 ext. citations	2.2 avg, IF	6.06 L-index

#	Paper	IF	Citations
118	Ensemble learning for data stream analysis: A survey. *Information Fusion*, **2017**, 37, 132-156	16.7	473
117	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	7.7	259
116	Incomplete Information Tables and Rough Classification. *Computational Intelligence*, **2001**, 17, 545-566	2.5	249
115	Reacting to different types of concept drift: the Accuracy Updated Ensemble algorithm. *IEEE Transactions on Neural Networks and Learning Systems*, **2014**, 25, 81-94	10.3	221
114	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	4.6	153
113	Types of minority class examples and their influence on learning classifiers from imbalanced data. *Journal of Intelligent Information Systems*, **2016**, 46, 563-597	2.1	127
112	Lingo: Search Results Clustering Algorithm Based on Singular Value Decomposition **2004**, 359-368		117
111	Neighbourhood sampling in bagging for imbalanced data. *Neurocomputing*, **2015**, 150, 529-542	5.4	116
110	Local neighbourhood extension of SMOTE for mining imbalanced data **2011**,		114
109	On the Extension of Rough Sets under Incomplete Information. *Lecture Notes in Computer Science*, **1999**, 73-81	0.9	111
108	Learning from Imbalanced Data in Presence of Noisy and Borderline Examples. *Lecture Notes in Computer Science*, **2010**, 158-167	0.9	104
107	Rough classification in incomplete information systems. *Mathematical and Computer Modelling*, **1989**, 12, 1347-1357		101
106	Combining block-based and online methods in learning ensembles from concept drifting data streams. *Information Sciences*, **2014**, 265, 50-67	7.7	100
105	Selective Pre-processing of Imbalanced Data for Improving Classification Performance. *Lecture Notes in Computer Science*, **2008**, 283-292	0.9	96
104	Three discretization methods for rule induction. *International Journal of Intelligent Systems*, **2001**, 16, 29-38	8.4	74
103	Rough sets approach to analysis of data from peritoneal lavage in acute pancreatitis. *Medical Informatics = Medecine Et Informatique*, **1988**, 13, 143-59		63
102	Induction of decision rules in classification and discovery-oriented perspectives. *International Journal of Intelligent Systems*, **2001**, 16, 13-27	8.4	59

101	An Algorithm for Induction of Decision Rules Consistent with the Dominance Principle. *Lecture Notes in Computer Science*, **2001**, 304-313	0.9	57
100	Accuracy Updated Ensemble for Data Streams with Concept Drift. *Lecture Notes in Computer Science*, **2011**, 155-163	0.9	55
99	Prequential AUC: properties of the area under the ROC curve for data streams with concept drift. *Knowledge and Information Systems*, **2017**, 52, 531-562	2.4	54
98	ROUGH-SET REASONING ABOUT UNCERTAIN DATA. *Fundamenta Informaticae*, **1996**, 27, 229-243	1	52
97	Discriminant versus rough sets approach to vague data analysis. *Applied Stochastic Models and Data Analysis*, **1992**, 8, 43-56		45
96	Integrating Selective Pre-processing of Imbalanced Data with Ivotes Ensemble. *Lecture Notes in Computer Science*, **2010**, 148-157	0.9	45
95	Dealing with Data Difficulty Factors While Learning from Imbalanced Data. *Studies in Computational Intelligence*, **2016**, 333-363	0.8	44
94	A Comparison of Two Approaches to Data Mining from Imbalanced Data. *Journal of Intelligent Manufacturing*, **2005**, 16, 565-573	6.7	44
93	Multi-class and feature selection extensions of Roughly Balanced Bagging for imbalanced data. *Journal of Intelligent Information Systems*, **2018**, 50, 97-127	2.1	41
92	Roughdas and Roughclass Software Implementations of the Rough Sets Approach **1992**, 445-456		41
91	Overlapping, Rare Examples and Class Decomposition in Learning Classifiers from Imbalanced Data. *Smart Innovation, Systems and Technologies*, **2013**, 277-306	0.5	40
90	BRACID: a comprehensive approach to learning rules from imbalanced data. *Journal of Intelligent Information Systems*, **2012**, 39, 335-373	2.1	39
89	Evaluation of vibroacoustic diagnostic symptoms by means of the rough sets theory. *Computers in Industry*, **1992**, 20, 141-152	11.6	39
88	Carrot2 and Language Properties in Web Search Results Clustering **2003**, 240-249		33
87	Identification of Different Types of Minority Class Examples in Imbalanced Data. *Lecture Notes in Computer Science*, **2012**, 139-150	0.9	33
86	Rough Classification with Valued Closeness Relation. *Studies in Classification, Data Analysis, and Knowledge Organization*, **1994**, 482-489	0.2	29
85	Feature subset selection for classification of histological images. *Artificial Intelligence in Medicine*, **1997**, 9, 227-39	7.4	27
84	On Combined Classifiers, Rule Induction and Rough Sets **2007**, 329-350		25

83	Rough sets analysis of diagnostic capacity of vibroacoustic symptoms. *Computers and Mathematics With Applications*, **1992**, 24, 109-123	2.7	22
82	Addressing imbalanced data with argument based rule learning. *Expert Systems With Applications*, **2015**, 42, 9468-9481	7.8	21
81	Extending Bagging for Imbalanced Data. *Advances in Intelligent Systems and Computing*, **2013**, 269-278	0.4	20
80	Valued Tolerance and Decision Rules. *Lecture Notes in Computer Science*, **2001**, 212-219	0.9	20
79	On the Dynamics of Classification Measures for Imbalanced and Streaming Data. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 2868-2878	10.3	20
78	Exploring complex and big data. *International Journal of Applied Mathematics and Computer Science*, **2017**, 27, 669-679	1.7	18
77	Incremental versus Non-incremental Rule Induction for Multicriteria Classification. *Lecture Notes in Computer Science*, **2004**, 33-53	0.9	18
76	Data stream classification and big data analytics. *Neurocomputing*, **2015**, 150, 238-239	5.4	17
75	Visual-based analysis of classification measures and their properties for class imbalanced problems. *Information Sciences*, **2018**, 462, 242-261	7.7	17
74	A General Two-Stage Approach to Inducing Rules from Examples. *Workshops in Computing*, **1994**, 317-325		14
73	Managing Borderline and Noisy Examples in Imbalanced Classification by Combining SMOTE with Ensemble Filtering. *Lecture Notes in Computer Science*, **2014**, 61-68	0.9	14
72	Prequential AUC for Classifier Evaluation and Drift Detection in Evolving Data Streams. *Lecture Notes in Computer Science*, **2015**, 87-101	0.9	14
71	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	1.7	14
70	Handling Various Types of Uncertainty in the Rough Set Approach. *Workshops in Computing*, **1994**, 366-376		14
69	A Comparison of Two Approaches to Data Mining from Imbalanced Data. *Lecture Notes in Computer Science*, **2004**, 757-763	0.9	13
68	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	2.5	13
67	Big Data Analysis: New Algorithms for a New Society. *Studies in Big Data*, **2016**,	0.9	12
66	Mining Association Rules in Preference-Ordered Data. *Lecture Notes in Computer Science*, **2002**, 442-450	0.9	12

65	Local Data Characteristics in Learning Classifiers from Imbalanced Data. *Studies in Computational Intelligence*, **2018**, 51-85	0.8	11
64	Experiments on solving multiclass learning problems by n2-classifier. *Lecture Notes in Computer Science*, **1998**, 172-177	0.9	11
63	Application of Preprocessing Methods to Imbalanced Clinical Data: An Experimental Study. *Advances in Intelligent Systems and Computing*, **2016**, 503-515	0.4	10
62	Handling Continuous Attributes in Discovery of Strong Decision Rules. *Lecture Notes in Computer Science*, **1998**, 394-401	0.9	10
61	Ensemble Diversity in Evolving Data Streams. *Lecture Notes in Computer Science*, **2016**, 229-244	0.9	10
60	Web Search Results Clustering in Polish: Experimental Evaluation of Carrot **2003**, 209-219		10
59	Rough set theory and rule induction techniques for discovery of attribute dependencies in medical information systems. *Lecture Notes in Computer Science*, **1997**, 36-46	0.9	10
58	Variable Consistency Bagging Ensembles. *Lecture Notes in Computer Science*, **2010**, 40-52	0.9	9
57	A Machine Learning Perspective on Big Data Analysis. *Studies in Big Data*, **2016**, 1-31	0.9	8
56	The Bagging and n2-Classifiers Based on Rules Induced by MODLEM. *Lecture Notes in Computer Science*, **2004**, 488-497	0.9	8
55	Ensemble Classifiers for Imbalanced and Evolving Data Streams. *Series in Machine Perception and Artificial Intelligence*, **2018**, 44-68	0.3	7
54	IIvotes ensemble for imbalanced data. *Intelligent Data Analysis*, **2012**, 16, 777-801	1.1	7
53	Rough Set Theory and Decision Rules in Data Analysis of Breast Cancer Patients. *Lecture Notes in Computer Science*, **2004**, 375-391	0.9	7
52	Extending Rule-Based Classifiers to Improve Recognition of Imbalanced Classes. *Studies in Computational Intelligence*, **2009**, 131-154	0.8	6
51	Classification Support Based on the Rough Sets Theory. *Lecture Notes in Economics and Mathematical Systems*, **1993**, 185-192	0.4	6
50	Rough Sets as a Tool for Studying Attribute Dependencies in the Urinary Stones Treatment Data Set **1997**, 177-196		6
49	Discovering Minority Sub-clusters and Local Difficulty Factors from Imbalanced Data. *Lecture Notes in Computer Science*, **2017**, 324-339	0.9	5
48	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	7.2	5

47	An Algorithm for Selective Preprocessing of Multi-class Imbalanced Data. *Advances in Intelligent Systems and Computing*, **2018**, 238-247	0.4	5
46	Evaluating Importance of Conditions in the Set of Discovered Rules. *Lecture Notes in Computer Science*, **2007**, 314-321	0.9	5
45	Ensembles of Abstaining Classifiers Based on Rule Sets. *Lecture Notes in Computer Science*, **2009**, 382-391	0.9	5
44	Ordinal Classification with Monotonicity Constraints by Variable Consistency Bagging. *Lecture Notes in Computer Science*, **2010**, 392-401	0.9	5
43	What makes multi-class imbalanced problems difficult? An experimental study. *Expert Systems With Applications*, **2022**, 116962	7.8	5
42	Processing and mining complex data streams. *Information Sciences*, **2014**, 285, 63-65	7.7	4
41	Mining Context Based Sequential Patterns. *Lecture Notes in Computer Science*, **2005**, 401-407	0.9	4
40	Importance and Interaction of Conditions in Decision Rules. *Lecture Notes in Computer Science*, **2002**, 255-262	0.9	4
39	The Usefulness of Roughly Balanced Bagging for Complex and High-Dimensional Imbalanced Data. *Lecture Notes in Computer Science*, **2016**, 93-107	0.9	4
38	Argument Based Generalization of MODLEM Rule Induction Algorithm. *Lecture Notes in Computer Science*, **2010**, 138-147	0.9	4
37	Multistage Rough Set Analysis of Therapeutic Experience with Acute Pancreatitis. *Studies in Fuzziness and Soft Computing*, **1998**, 272-294	0.7	4
36	Analysis of Diagnostic Symptoms in Vibroacoustic Diagnostics by Means of the Rough Sets Theory **1992**, 33-48		4
35	The impact of data difficulty factors on classification of imbalanced and concept drifting data streams. *Knowledge and Information Systems*, **2021**, 63, 1429-1469	2.4	4
34	Abstaining in rule set bagging for imbalanced data. *Logic Journal of the IGPL*, **2015**, 23, 421-430	1	3
33	Classification of Polish Email Messages: Experiments with Various Data Representations. *Lecture Notes in Computer Science*, **2006**, 723-728	0.9	3
32	Local Characteristics of Minority Examples in Pre-processing of Imbalanced Data. *Lecture Notes in Computer Science*, **2014**, 123-132	0.9	3
31	Evaluating Difficulty of Multi-class Imbalanced Data. *Lecture Notes in Computer Science*, **2017**, 312-322	0.9	3
30	Increasing the Interpretability of Rules Induced from Imbalanced Data by Using Bayesian Confirmation Measures. *Lecture Notes in Computer Science*, **2017**, 84-98	0.9	3

29	Combining Answers of Sub-classifiers in the Bagging-Feature Ensembles. *Lecture Notes in Computer Science*, **2007**, 574-583	0.9	3
28	Bagging and Induction of Decision Rules **2002**, 121-130		3
27	Comparison of the Rough Sets Approach and Probabilistic Data Analysis Techniques on a Common Set of Medical Data **1992**, 251-265		3
26	RILL: Algorithm for Learning Rules from Streaming Data with Concept Drift. *Lecture Notes in Computer Science*, **2014**, 20-29	0.9	2
25	The Impact of Local Data Characteristics on Learning from Imbalanced Data. *Lecture Notes in Computer Science*, **2014**, 1-13	0.9	2
24	Induction of Decision Rules and Classification in the Valued Tolerance Approach. *Lecture Notes in Computer Science*, **2002**, 271-278	0.9	2
23	On Properties of Undersampling Bagging and Its Extensions for Imbalanced Data. *Advances in Intelligent Systems and Computing*, **2016**, 407-417	0.4	2
22	Post-processing of BRACID Rules Induced from Imbalanced Data. *Fundamenta Informaticae*, **2016**, 148, 51-64	1	2
21	Induction of decision rules in classification and discovery-oriented perspectives **2001**, 16, 13		2
20	Consistency Driven Feature Subspace Aggregating for Ordinal Classification. *Lecture Notes in Computer Science*, **2016**, 580-589	0.9	1
19	Final Remarks on Big Data Analysis and Its Impact on Society and Science. *Studies in Big Data*, **2016**, 305-329	0.9	1
18	On using rule induction in multiple classifiers with a combiner aggregation strategy **2005**,		1
17	Artificial Intelligence Research Community and Associations in Poland. *Foundations of Computing and Decision Sciences*, **2020**, 45, 159-177	0.7	1
16	Actively Balanced Bagging for Imbalanced Data. *Lecture Notes in Computer Science*, **2017**, 271-281	0.9	1
15	Tetrahedron: Barycentric Measure Visualizer. *Lecture Notes in Computer Science*, **2017**, 419-422	0.9	1
14	Comparing Block Ensembles for Data Streams with Concept Drift. *Advances in Intelligent Systems and Computing*, **2013**, 69-78	0.4	1
13	multi-imbalance: Open Source Python Toolbox for Multi-class Imbalanced Classification. *Lecture Notes in Computer Science*, **2021**, 546-549	0.9	1
12	Time Aspect in Making an Actionable Prediction of a Conversation Breakdown. *Lecture Notes in Computer Science*, **2021**, 351-364	0.9	1

11	Improving Bagging Ensembles for Class Imbalanced Data by Active Learning. *Intelligent Systems Reference Library*, **2018**, 25-52	0.8	1
10	Prototypical Convolutional Neural Network for a Phrase-Based Explanation of Sentiment Classification. *Communications in Computer and Information Science*, **2021**, 457-472	0.3	1
9	The rough sets approach to knowledge analysis for classification support in technical diagnostics of mechanical objects **1992**, 556-565		
8	Incremental Rule Induction for Multicriteria and Multiattribute Classification **2003**, 311-319		
7	ROUGH CLASSIFICATION IN INCOMPLETE INFORMATION SYSTEMS **1989**, 1347-1357		
6	In memoriam Professor Solomon Marcus. *Foundations of Computing and Decision Sciences*, **2016**, 41, 95-97	0.7	
5	Modifications of Classification Strategies in Rule Set Based Bagging for Imbalanced Data. *Lecture Notes in Computer Science*, **2012**, 514-525	0.9	
4	Adaptive Ensembles for Evolving Data Streams Combining Block-Based and Online Solutions. *Lecture Notes in Computer Science*, **2016**, 3-16	0.9	
3	Classification of Multi-class Imbalanced Data: Data Difficulty Factors and Selected Methods for Improving Classifiers. *Lecture Notes in Computer Science*, **2021**, 57-72	0.9	
2	Rule Confirmation Measures: Properties, Visual Analysis and Applications. *Multiple Criteria Decision Making*, **2022**, 401-423	1.4	
1	Roman Słowiński and His Research Program: Intelligent Decision Support Systems Between Operations Research and Artificial Intelligence. *Multiple Criteria Decision Making*, **2022**, 1-27	1.4	