

Jerzy Stefanowski

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.

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	What makes multi-class imbalanced problems difficult? An experimental study. <i>Expert Systems With Applications</i> , 2022 , 116962	7.8	5
117	Rule Confirmation Measures: Properties, Visual Analysis and Applications. <i>Multiple Criteria Decision Making</i> , 2022 , 401-423	1.4	
116	Roman Swieki and His Research Program: Intelligent Decision Support Systems Between Operations Research and Artificial Intelligence. <i>Multiple Criteria Decision Making</i> , 2022 , 1-27	1.4	
115	The impact of data difficulty factors on classification of imbalanced and concept drifting data streams. <i>Knowledge and Information Systems</i> , 2021 , 63, 1429-1469	2.4	4
114	multi-imbalance: Open Source Python Toolbox for Multi-class Imbalanced Classification. <i>Lecture Notes in Computer Science</i> , 2021 , 546-549	0.9	1
113	Time Aspect in Making an Actionable Prediction of a Conversation Breakdown. <i>Lecture Notes in Computer Science</i> , 2021 , 351-364	0.9	1
112	Classification of Multi-class Imbalanced Data: Data Difficulty Factors and Selected Methods for Improving Classifiers. <i>Lecture Notes in Computer Science</i> , 2021 , 57-72	0.9	
111	Prototypical Convolutional Neural Network for a Phrase-Based Explanation of Sentiment Classification. <i>Communications in Computer and Information Science</i> , 2021 , 457-472	0.3	1
110	Artificial Intelligence Research Community and Associations in Poland. <i>Foundations of Computing and Decision Sciences</i> , 2020 , 45, 159-177	0.7	1
109	On the Dynamics of Classification Measures for Imbalanced and Streaming Data. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 2868-2878	10.3	20
108	Using Information on Class Interrelations to Improve Classification of Multiclass Imbalanced Data: A New Resampling Algorithm. <i>International Journal of Applied Mathematics and Computer Science</i> , 2019 , 29, 769-781	1.7	14
107	Ensemble Classifiers for Imbalanced and Evolving Data Streams. <i>Series in Machine Perception and Artificial Intelligence</i> , 2018 , 44-68	0.3	7
106	Multi-class and feature selection extensions of Roughly Balanced Bagging for imbalanced data. <i>Journal of Intelligent Information Systems</i> , 2018 , 50, 97-127	2.1	41
105	Local Data Characteristics in Learning Classifiers from Imbalanced Data. <i>Studies in Computational Intelligence</i> , 2018 , 51-85	0.8	11
104	Visual-based analysis of classification measures and their properties for class imbalanced problems. <i>Information Sciences</i> , 2018 , 462, 242-261	7.7	17
103	An Algorithm for Selective Preprocessing of Multi-class Imbalanced Data. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 238-247	0.4	5
102	Improving Bagging Ensembles for Class Imbalanced Data by Active Learning. <i>Intelligent Systems Reference Library</i> , 2018 , 25-52	0.8	1

101	Ensemble learning for data stream analysis: A survey. <i>Information Fusion</i> , 2017 , 37, 132-156	16.7	473
100	Prequential AUC: properties of the area under the ROC curve for data streams with concept drift. <i>Knowledge and Information Systems</i> , 2017 , 52, 531-562	2.4	54
99	Discovering Minority Sub-clusters and Local Difficulty Factors from Imbalanced Data. <i>Lecture Notes in Computer Science</i> , 2017 , 324-339	0.9	5
98	Exploring complex and big data. <i>International Journal of Applied Mathematics and Computer Science</i> , 2017 , 27, 669-679	1.7	18
97	Actively Balanced Bagging for Imbalanced Data. <i>Lecture Notes in Computer Science</i> , 2017 , 271-281	0.9	1
96	Evaluating Difficulty of Multi-class Imbalanced Data. <i>Lecture Notes in Computer Science</i> , 2017 , 312-322	0.9	3
95	Increasing the Interpretability of Rules Induced from Imbalanced Data by Using Bayesian Confirmation Measures. <i>Lecture Notes in Computer Science</i> , 2017 , 84-98	0.9	3
94	Tetrahedron: Barycentric Measure Visualizer. <i>Lecture Notes in Computer Science</i> , 2017 , 419-422	0.9	1
93	Types of minority class examples and their influence on learning classifiers from imbalanced data. <i>Journal of Intelligent Information Systems</i> , 2016 , 46, 563-597	2.1	127
92	Consistency Driven Feature Subspace Aggregating for Ordinal Classification. <i>Lecture Notes in Computer Science</i> , 2016 , 580-589	0.9	1
91	Application of Preprocessing Methods to Imbalanced Clinical Data: An Experimental Study. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 503-515	0.4	10
90	Big Data Analysis: New Algorithms for a New Society. <i>Studies in Big Data</i> , 2016 ,	0.9	12
89	A Machine Learning Perspective on Big Data Analysis. <i>Studies in Big Data</i> , 2016 , 1-31	0.9	8
88	Final Remarks on Big Data Analysis and Its Impact on Society and Science. <i>Studies in Big Data</i> , 2016 , 305-329	0.9	1
87	Dealing with Data Difficulty Factors While Learning from Imbalanced Data. <i>Studies in Computational Intelligence</i> , 2016 , 333-363	0.8	44
86	On Properties of Undersampling Bagging and Its Extensions for Imbalanced Data. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 407-417	0.4	2
85	The Usefulness of Roughly Balanced Bagging for Complex and High-Dimensional Imbalanced Data. <i>Lecture Notes in Computer Science</i> , 2016 , 93-107	0.9	4
84	Ensemble Diversity in Evolving Data Streams. <i>Lecture Notes in Computer Science</i> , 2016 , 229-244	0.9	10

83	In memoriam Professor Solomon Marcus. <i>Foundations of Computing and Decision Sciences</i> , 2016 , 41, 95-97.7		
82	Post-processing of BRACID Rules Induced from Imbalanced Data. <i>Fundamenta Informaticae</i> , 2016 , 148, 51-64	1	2
81	Adaptive Ensembles for Evolving Data Streams [Combining Block-Based and Online Solutions]. <i>Lecture Notes in Computer Science</i> , 2016 , 3-16	0.9	
80	Abstaining in rule set bagging for imbalanced data. <i>Logic Journal of the IGPL</i> , 2015 , 23, 421-430	1	3
79	Addressing imbalanced data with argument based rule learning. <i>Expert Systems With Applications</i> , 2015 , 42, 9468-9481	7.8	21
78	Data stream classification and big data analytics. <i>Neurocomputing</i> , 2015 , 150, 238-239	5.4	17
77	Neighbourhood sampling in bagging for imbalanced data. <i>Neurocomputing</i> , 2015 , 150, 529-542	5.4	116
76	SMOTEIPF: Addressing the noisy and borderline examples problem in imbalanced classification by a re-sampling method with filtering. <i>Information Sciences</i> , 2015 , 291, 184-203	7.7	259
75	Prequential AUC for Classifier Evaluation and Drift Detection in Evolving Data Streams. <i>Lecture Notes in Computer Science</i> , 2015 , 87-101	0.9	14
74	Reacting to different types of concept drift: the Accuracy Updated Ensemble algorithm. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 81-94	10.3	221
73	Open challenges for data stream mining research. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining</i> , 2014 , 16, 1-10	4.6	153
72	Combining block-based and online methods in learning ensembles from concept drifting data streams. <i>Information Sciences</i> , 2014 , 265, 50-67	7.7	100
71	Processing and mining complex data streams. <i>Information Sciences</i> , 2014 , 285, 63-65	7.7	4
70	RILL: Algorithm for Learning Rules from Streaming Data with Concept Drift. <i>Lecture Notes in Computer Science</i> , 2014 , 20-29	0.9	2
69	The Impact of Local Data Characteristics on Learning from Imbalanced Data. <i>Lecture Notes in Computer Science</i> , 2014 , 1-13	0.9	2
68	Local Characteristics of Minority Examples in Pre-processing of Imbalanced Data. <i>Lecture Notes in Computer Science</i> , 2014 , 123-132	0.9	3
67	Managing Borderline and Noisy Examples in Imbalanced Classification by Combining SMOTE with Ensemble Filtering. <i>Lecture Notes in Computer Science</i> , 2014 , 61-68	0.9	14
66	Extending Bagging for Imbalanced Data. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 269-278	0.4	20

65	Overlapping, Rare Examples and Class Decomposition in Learning Classifiers from Imbalanced Data. <i>Smart Innovation, Systems and Technologies</i> , 2013 , 277-306	0.5	40
64	Comparing Block Ensembles for Data Streams with Concept Drift. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 69-78	0.4	1
63	BRACID: a comprehensive approach to learning rules from imbalanced data. <i>Journal of Intelligent Information Systems</i> , 2012 , 39, 335-373	2.1	39
62	Ivotes ensemble for imbalanced data. <i>Intelligent Data Analysis</i> , 2012 , 16, 777-801	1.1	7
61	Identification of Different Types of Minority Class Examples in Imbalanced Data. <i>Lecture Notes in Computer Science</i> , 2012 , 139-150	0.9	33
60	Modifications of Classification Strategies in Rule Set Based Bagging for Imbalanced Data. <i>Lecture Notes in Computer Science</i> , 2012 , 514-525	0.9	
59	Local neighbourhood extension of SMOTE for mining imbalanced data 2011 ,		114
58	Accuracy Updated Ensemble for Data Streams with Concept Drift. <i>Lecture Notes in Computer Science</i> , 2011 , 155-163	0.9	55
57	Variable Consistency Bagging Ensembles. <i>Lecture Notes in Computer Science</i> , 2010 , 40-52	0.9	9
56	Argument Based Generalization of MODLEM Rule Induction Algorithm. <i>Lecture Notes in Computer Science</i> , 2010 , 138-147	0.9	4
55	Integrating Selective Pre-processing of Imbalanced Data with Ivotes Ensemble. <i>Lecture Notes in Computer Science</i> , 2010 , 148-157	0.9	45
54	Learning from Imbalanced Data in Presence of Noisy and Borderline Examples. <i>Lecture Notes in Computer Science</i> , 2010 , 158-167	0.9	104
53	Ordinal Classification with Monotonicity Constraints by Variable Consistency Bagging. <i>Lecture Notes in Computer Science</i> , 2010 , 392-401	0.9	5
52	Extending Rule-Based Classifiers to Improve Recognition of Imbalanced Classes. <i>Studies in Computational Intelligence</i> , 2009 , 131-154	0.8	6
51	Ensembles of Abstaining Classifiers Based on Rule Sets. <i>Lecture Notes in Computer Science</i> , 2009 , 382-391	0.9	5
50	Selective Pre-processing of Imbalanced Data for Improving Classification Performance. <i>Lecture Notes in Computer Science</i> , 2008 , 283-292	0.9	96
49	On Combined Classifiers, Rule Induction and Rough Sets 2007 , 329-350		25
48	Evaluating Importance of Conditions in the Set of Discovered Rules. <i>Lecture Notes in Computer Science</i> , 2007 , 314-321	0.9	5

47	Combining Answers of Sub-classifiers in the Bagging-Feature Ensembles. <i>Lecture Notes in Computer Science</i> , 2007 , 574-583	0.9	3
46	Classification of Polish Email Messages: Experiments with Various Data Representations. <i>Lecture Notes in Computer Science</i> , 2006 , 723-728	0.9	3
45	On using rule induction in multiple classifiers with a combiner aggregation strategy 2005 ,		1
44	A Comparison of Two Approaches to Data Mining from Imbalanced Data. <i>Journal of Intelligent Manufacturing</i> , 2005 , 16, 565-573	6.7	44
43	Mining Context Based Sequential Patterns. <i>Lecture Notes in Computer Science</i> , 2005 , 401-407	0.9	4
42	Rough Set Theory and Decision Rules in Data Analysis of Breast Cancer Patients. <i>Lecture Notes in Computer Science</i> , 2004 , 375-391	0.9	7
41	An experimental evaluation of improving rule based classifiers with two approaches that change representations of learning examples. <i>Engineering Applications of Artificial Intelligence</i> , 2004 , 17, 439-445	7.2	5
40	A Comparison of Two Approaches to Data Mining from Imbalanced Data. <i>Lecture Notes in Computer Science</i> , 2004 , 757-763	0.9	13
39	The Bagging and n2-Classifiers Based on Rules Induced by MODLEM. <i>Lecture Notes in Computer Science</i> , 2004 , 488-497	0.9	8
38	Incremental versus Non-incremental Rule Induction for Multicriteria Classification. <i>Lecture Notes in Computer Science</i> , 2004 , 33-53	0.9	18
37	Lingo: Search Results Clustering Algorithm Based on Singular Value Decomposition 2004 , 359-368		117
36	Carrot2 and Language Properties in Web Search Results Clustering 2003 , 240-249		33
35	Incremental Rule Induction for Multicriteria and Multiattribute Classification 2003 , 311-319		
34	Web Search Results Clustering in Polish: Experimental Evaluation of Carrot 2003 , 209-219		10
33	Importance and Interaction of Conditions in Decision Rules. <i>Lecture Notes in Computer Science</i> , 2002 , 255-262	0.9	4
32	Induction of Decision Rules and Classification in the Valued Tolerance Approach. <i>Lecture Notes in Computer Science</i> , 2002 , 271-278	0.9	2
31	Bagging and Induction of Decision Rules 2002 , 121-130		3
30	Mining Association Rules in Preference-Ordered Data. <i>Lecture Notes in Computer Science</i> , 2002 , 442-450	0.9	12

29	Induction of decision rules in classification and discovery-oriented perspectives. <i>International Journal of Intelligent Systems</i> , 2001 , 16, 13-27	8.4	59
28	Three discretization methods for rule induction. <i>International Journal of Intelligent Systems</i> , 2001 , 16, 29-38	8.4	74
27	Evaluating business credit risk by means of approach-integrating decision rules and case-based learning. <i>Intelligent Systems in Accounting, Finance and Management</i> , 2001 , 10, 97-114	2.5	13
26	Incomplete Information Tables and Rough Classification. <i>Computational Intelligence</i> , 2001 , 17, 545-566	2.5	249
25	Valued Tolerance and Decision Rules. <i>Lecture Notes in Computer Science</i> , 2001 , 212-219	0.9	20
24	An Algorithm for Induction of Decision Rules Consistent with the Dominance Principle. <i>Lecture Notes in Computer Science</i> , 2001 , 304-313	0.9	57
23	Induction of decision rules in classification and discovery-oriented perspectives 2001 , 16, 13		2
22	On the Extension of Rough Sets under Incomplete Information. <i>Lecture Notes in Computer Science</i> , 1999 , 73-81	0.9	111
21	Handling Continuous Attributes in Discovery of Strong Decision Rules. <i>Lecture Notes in Computer Science</i> , 1998 , 394-401	0.9	10
20	Experiments on solving multiclass learning problems by n2-classifier. <i>Lecture Notes in Computer Science</i> , 1998 , 172-177	0.9	11
19	Multistage Rough Set Analysis of Therapeutic Experience with Acute Pancreatitis. <i>Studies in Fuzziness and Soft Computing</i> , 1998 , 272-294	0.7	4
18	Feature subset selection for classification of histological images. <i>Artificial Intelligence in Medicine</i> , 1997 , 9, 227-39	7.4	27
17	Rough Sets as a Tool for Studying Attribute Dependencies in the Urinary Stones Treatment Data Set 1997 , 177-196		6
16	Rough set theory and rule induction techniques for discovery of attribute dependencies in medical information systems. <i>Lecture Notes in Computer Science</i> , 1997 , 36-46	0.9	10
15	ROUGH-SET REASONING ABOUT UNCERTAIN DATA. <i>Fundamenta Informaticae</i> , 1996 , 27, 229-243	1	52
14	A General Two-Stage Approach to Inducing Rules from Examples. <i>Workshops in Computing</i> , 1994 , 317-325		14
13	Rough Classification with Valued Closeness Relation. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , 1994 , 482-489	0.2	29
12	Handling Various Types of Uncertainty in the Rough Set Approach. <i>Workshops in Computing</i> , 1994 , 366-376		14

11	Classification Support Based on the Rough Sets Theory. <i>Lecture Notes in Economics and Mathematical Systems</i> , 1993 , 185-192	0.4	6
10	The rough sets approach to knowledge analysis for classification support in technical diagnostics of mechanical objects 1992 , 556-565		
9	Evaluation of vibroacoustic diagnostic symptoms by means of the rough sets theory. <i>Computers in Industry</i> , 1992 , 20, 141-152	11.6	39
8	Rough sets analysis of diagnostic capacity of vibroacoustic symptoms. <i>Computers and Mathematics With Applications</i> , 1992 , 24, 109-123	2.7	22
7	Discriminant versus rough sets approach to vague data analysis. <i>Applied Stochastic Models and Data Analysis</i> , 1992 , 8, 43-56		45
6	Comparison of the Rough Sets Approach and Probabilistic Data Analysis Techniques on a Common Set of Medical Data 1992 , 251-265		3
5	Roughdas and Roughclass Software Implementations of the Rough Sets Approach 1992 , 445-456		41
4	Analysis of Diagnostic Symptoms in Vibroacoustic Diagnostics by Means of the Rough Sets Theory 1992 , 33-48		4
3	Rough classification in incomplete information systems. <i>Mathematical and Computer Modelling</i> , 1989 , 12, 1347-1357		101
2	ROUGH CLASSIFICATION IN INCOMPLETE INFORMATION SYSTEMS 1989 , 1347-1357		
1	Rough sets approach to analysis of data from peritoneal lavage in acute pancreatitis. <i>Medical Informatics = Medecine Et Informatique</i> , 1988 , 13, 143-59		63