

Mikel Galar

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.

89
papers

4,131
citations

26
h-index

64
g-index

102
ext. papers

5,125
ext. citations

4.5
avg, IF

5.67
L-index

#	Paper	IF	Citations
89	A Review on Ensembles for the Class Imbalance Problem: Bagging-, Boosting-, and Hybrid-Based Approaches. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012 , 42, 463-484		1372
88	An overview of ensemble methods for binary classifiers in multi-class problems: Experimental study on one-vs-one and one-vs-all schemes. <i>Pattern Recognition</i> , 2011 , 44, 1761-1776	7.7	465
87	EUSBoost: Enhancing ensembles for highly imbalanced data-sets by evolutionary undersampling. <i>Pattern Recognition</i> , 2013 , 46, 3460-3471	7.7	242
86	Analysing the classification of imbalanced data-sets with multiple classes: Binarization techniques and ad-hoc approaches. <i>Knowledge-Based Systems</i> , 2013 , 42, 97-110	7.3	216
85	Learning from Imbalanced Data Sets 2018 ,		198
84	A New Approach to Interval-Valued Choquet Integrals and the Problem of Ordering in Interval-Valued Fuzzy Set Applications. <i>IEEE Transactions on Fuzzy Systems</i> , 2013 , 21, 1150-1162	8.3	144
83	Evolutionary undersampling boosting for imbalanced classification of breast cancer malignancy. <i>Applied Soft Computing Journal</i> , 2016 , 38, 714-726	7.5	138
82	Medical diagnosis of cardiovascular diseases using an interval-valued fuzzy rule-based classification system. <i>Applied Soft Computing Journal</i> , 2014 , 20, 103-111	7.5	95
81	Enhancing Multiclass Classification in FARG-HD Fuzzy Classifier: On the Synergy Between n -Dimensional Overlap Functions and Decomposition Strategies. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 1562-1580	8.3	92
80	Analyzing the presence of noise in multi-class problems: alleviating its influence with the One-vs-One decomposition. <i>Knowledge and Information Systems</i> , 2014 , 38, 179-206	2.4	87
79	A survey on fingerprint minutiae-based local matching for verification and identification: Taxonomy and experimental evaluation. <i>Information Sciences</i> , 2015 , 315, 67-87	7.7	82
78	Dynamic classifier selection for One-vs-One strategy: Avoiding non-competent classifiers. <i>Pattern Recognition</i> , 2013 , 46, 3412-3424	7.7	75
77	Fuzzy Rule-Based Classification Systems for multi-class problems using binary decomposition strategies: On the influence of n -dimensional overlap functions in the Fuzzy Reasoning Method. <i>Information Sciences</i> , 2016 , 332, 94-114	7.7	67
76	DRCW-OVO: Distance-based relative competence weighting combination for One-vs-One strategy in multi-class problems. <i>Pattern Recognition</i> , 2015 , 48, 28-42	7.7	61
75	Interval-valued fuzzy sets applied to stereo matching of color images. <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 1949-61	8.7	61
74	Tackling the problem of classification with noisy data using Multiple Classifier Systems: Analysis of the performance and robustness. <i>Information Sciences</i> , 2013 , 247, 1-20	7.7	58
73	INFFC: An iterative class noise filter based on the fusion of classifiers with noise sensitivity control. <i>Information Fusion</i> , 2016 , 27, 19-32	16.7	55

72	Ordering-based pruning for improving the performance of ensembles of classifiers in the framework of imbalanced datasets. <i>Information Sciences</i> , 2016 , 354, 178-196	7.7	55
71	A survey of fingerprint classification Part I: Taxonomies on feature extraction methods and learning models. <i>Knowledge-Based Systems</i> , 2015 , 81, 76-97	7.3	42
70	Consensus via penalty functions for decision making in ensembles in fuzzy rule-based classification systems. <i>Applied Soft Computing Journal</i> , 2018 , 67, 728-740	7.5	40
69	Dynamic ensemble selection for multi-class classification with one-class classifiers. <i>Pattern Recognition</i> , 2018 , 83, 34-51	7.7	38
68	CHI-BD: A fuzzy rule-based classification system for Big Data classification problems. <i>Fuzzy Sets and Systems</i> , 2018 , 348, 75-101	3.7	36
67	Evolutionary undersampling for extremely imbalanced big data classification under apache spark 2016 ,		36
66	A survey of fingerprint classification Part II: Experimental analysis and ensemble proposal. <i>Knowledge-Based Systems</i> , 2015 , 81, 98-116	7.3	31
65	On the impact of anisotropic diffusion on edge detection. <i>Pattern Recognition</i> , 2014 , 47, 270-281	7.7	28
64	Empowering difficult classes with a similarity-based aggregation in multi-class classification problems. <i>Information Sciences</i> , 2014 , 264, 135-157	7.7	26
63	Evolutionary undersampling for imbalanced big data classification 2015 ,		22
62	Minutiae filtering to improve both efficacy and efficiency of fingerprint matching algorithms. <i>Engineering Applications of Artificial Intelligence</i> , 2014 , 32, 37-53	7.2	22
61	Composition of interval-valued fuzzy relations using aggregation functions. <i>Information Sciences</i> , 2016 , 369, 690-703	7.7	22
60	. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 163-177	8.3	18
59	NMC: nearest matrix classification [A new combination model for pruning One-vs-One ensembles by transforming the aggregation problem. <i>Information Fusion</i> , 2017 , 36, 26-51	16.7	14
58	Addressing the Overlapping Data Problem in Classification Using the One-vs-One Decomposition Strategy. <i>IEEE Access</i> , 2019 , 7, 83396-83411	3.5	14
57	A Comparison Study of Different Color Spaces in Clustering Based Image Segmentation. <i>Communications in Computer and Information Science</i> , 2010 , 532-541	0.3	14
56	A new survival status prediction system for severe trauma patients based on a multiple classifier system. <i>Computer Methods and Programs in Biomedicine</i> , 2017 , 142, 1-8	6.9	13
55	CHI-PG: A fast prototype generation algorithm for Big Data classification problems. <i>Neurocomputing</i> , 2018 , 287, 22-33	5.4	12

54	Aggregation functions to combine RGB color channels in stereo matching. <i>Optics Express</i> , 2013 , 21, 12473-57	3.57	10
53	d-Choquet integrals: Choquet integrals based on dissimilarities. <i>Fuzzy Sets and Systems</i> , 2021 , 414, 1-27	3.7	9
52	Super-Resolution of Sentinel-2 Images Using Convolutional Neural Networks and Real Ground Truth Data. <i>Remote Sensing</i> , 2020 , 12, 2941	5	7
51	Bitcoin and Cybersecurity: Temporal Dissection of Blockchain Data to Unveil Changes in Entity Behavioral Patterns. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5003	2.6	7
50	A first attempt on global evolutionary undersampling for imbalanced big data 2017 ,		6
49	SUPER-RESOLUTION FOR SENTINEL-2 IMAGES. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, XLII-2/W16</i> , 95-102	2.5	6
48	Multicriteria Decision Making by Means of Interval-Valued Choquet Integrals. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 269-278		6
47	A framework for radial data comparison and its application to fingerprint analysis. <i>Applied Soft Computing Journal</i> , 2016 , 46, 246-259	7.5	6
46	EUSC: A clustering-based surrogate model to accelerate evolutionary undersampling in imbalanced classification. <i>Applied Soft Computing Journal</i> , 2021 , 101, 107033	7.5	6
45	A preliminary study on fingerprint classification using fuzzy rule-based classification systems 2014 ,		5
44	Representing images by means of interval-valued fuzzy sets. Application to stereo matching 2011 ,		5
43	A First Study on Decomposition Strategies with Data with Class Noise Using Decision Trees. <i>Lecture Notes in Computer Science</i> , 2012 , 25-35	0.9	5
42	Foundations on Imbalanced Classification 2018 , 19-46		5
41	Enhancing evolutionary fuzzy systems for multi-class problems: Distance-based relative competence weighting with truncated confidences (DRCW-TC). <i>International Journal of Approximate Reasoning</i> , 2016 , 73, 108-122	3.6	4
40	An Evolutionary UnderBagging Approach to Tackle the Survival Prediction of Trauma Patients: A Case Study at the Hospital of Navarre. <i>IEEE Access</i> , 2019 , 7, 76009-76021	3.5	4
39	A generalization of the Perona-Malik anisotropic diffusion method using restricted dissimilarity functions. <i>International Journal of Computational Intelligence Systems</i> , 2013 , 6, 14-28	3.4	4
38	Imbalanced Classification for Big Data 2018 , 327-349		4
37	Algorithm-Level Approaches 2018 , 123-146		4

36	FUZZ-EQ: A data equalizer for boosting the discrimination power of fuzzy classifiers. <i>Applied Soft Computing Journal</i> , 2020 , 93, 106399	7.5	3
35	Ensemble Learning 2018 , 147-196		3
34	IVOVO: A new interval-valued one-vs-one approach for multi-class classification problems 2017 ,		2
33	Operators on intuitionistic fuzzy relations 2015 ,		2
32	On the Use of t-Conorms in the Gravity-Based Approach to Edge Detection 2009 ,		2
31	Generative Adversarial Networks for Bitcoin Data Augmentation 2020 ,		2
30	TOWARDS FINE-GRAINED ROAD MAPS EXTRACTION USING SENTINEL-2 IMAGERY. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , V-3-2021, 9-14		2
29	2018 ,		2
28	A Study of OWA Operators Learned in Convolutional Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7195	2.6	2
27	A Deep Learning Approach to an Enhanced Building Footprint and Road Detection in High-Resolution Satellite Imagery. <i>Remote Sensing</i> , 2021 , 13, 3135	5	2
26	Theoretical and Empirical Criteria for the Edited Nearest Neighbour Classifier 2015 ,		1
25	Extending the upper/lower edge detector by means of directional masks and OWA operators. <i>Progress in Artificial Intelligence</i> , 2012 , 1, 267-276	4	1
24	Construction of Interval Type-2 Fuzzy Sets From Fuzzy Sets: Methods and Applications. <i>Studies in Fuzziness and Soft Computing</i> , 2013 , 147-163	0.7	1
23	On the use of quasi-arithmetic means for the generation of edge detection blending functions 2010 ,		1
22	Learning Channel-Wise Ordered Aggregations in Deep Neural Networks. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 1023-1030	0.4	1
21	A Study of Different Families of Fusion Functions for Combining Classifiers in the One-vs-One Strategy. <i>Communications in Computer and Information Science</i> , 2018 , 427-440	0.3	1
20	New Ordering-Based Pruning Metrics for Ensembles of Classifiers in Imbalanced Datasets. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 3-15	0.4	1
19	A New Extension of Monotonicity: Ordered Directional Monotonicity. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 295-305	0.4	1

18	Aggregation of Color Information in Stereo Matching Problem: A Comparison Study. <i>Lecture Notes in Computer Science</i> , 2010 , 369-378	0.9	1
17	A Preliminary Study of the Usage of Similarity Measures to Detect Singular Points in Fingerprint Images. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 367-378	0.4	1
16	Additional Feature Layers from Ordered Aggregations for Deep Neural Networks 2020 ,		1
15	Multi-Class Strategies for Joint Building Footprint and Road Detection in Remote Sensing. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8340	2.6	1
14	Attacking Bitcoin anonymity: generative adversarial networks for improving Bitcoin entity classification. <i>Applied Intelligence</i> ,1	4.9	1
13	Unsupervised Fuzzy Measure Learning for Classifier Ensembles From Coalitions Performance. <i>IEEE Access</i> , 2020 , 8, 52288-52305	3.5	0
12	Network traffic analysis through node behaviour classification: a graph-based approach with temporal dissection and data-level preprocessing. <i>Computers and Security</i> , 2022 , 115, 102632	4.9	0
11	Data Level Preprocessing Methods 2018 , 79-121		0
10	Imbalanced Classification with Multiple Classes 2018 , 197-226		0
9	Similarity Measures for Radial Data. <i>Communications in Computer and Information Science</i> , 2016 , 599-611	0.3	
8	Multiscale Extension of the Gravitational Approach to Edge Detection. <i>Lecture Notes in Computer Science</i> , 2011 , 283-292	0.9	
7	Dissimilarity Based Choquet Integrals. <i>Communications in Computer and Information Science</i> , 2020 , 565-573		
6	On the Influence of Admissible Orders in IVOVO. <i>Lecture Notes in Computer Science</i> , 2019 , 358-369	0.9	
5	On the Influence of Interval Normalization in IVOVO Fuzzy Multi-class Classifier. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 44-57	0.4	
4	Construction of Capacities from Overlap Indexes. <i>Studies in Computational Intelligence</i> , 2017 , 323-335	0.8	
3	An Experimental Case of Study on the Behavior of Multiple Classifier Systems with Class Noise Datasets. <i>Lecture Notes in Computer Science</i> , 2013 , 568-577	0.9	
2	Improving the Performance of FARC-HD in Multi-class Classification Problems Using the One-Versus-One Strategy and an Adaptation of the Inference System. <i>Communications in Computer and Information Science</i> , 2014 , 296-306	0.3	
1	Software and Libraries for Imbalanced Classification 2018 , 351-377		

