

Ludmila Ilieva Kuncheva

List of Publications by Year in descending order

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117
papers

13,084
citations

81743

39
h-index

39575

94
g-index

126
all docs

126
docs citations

126
times ranked

8752
citing authors

#	ARTICLE	IF	CITATIONS
1	Animal reidentification using restricted set classification. <i>Ecological Informatics</i> , 2021, 62, 101225.	2.3	1
2	Random Balance ensembles for multiclass imbalance learning. <i>Knowledge-Based Systems</i> , 2020, 193, 105434.	4.0	24
3	Prototype Classifiers and the Big Fish: The Case of Prototype (Instance) Selection. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2020, 6, 49-56.	1.2	2
4	An experimental evaluation of mixup regression forests. <i>Expert Systems With Applications</i> , 2020, 151, 113376.	4.4	11
5	Using control charts for on-line video summarisation. <i>MATEC Web of Conferences</i> , 2019, 277, 01012.	0.1	1
6	Classification and comparison of on-line video summarisation methods. <i>Machine Vision and Applications</i> , 2019, 30, 507-518.	1.7	5
7	Instance selection improves geometric mean accuracy: a study on imbalanced data classification. <i>Progress in Artificial Intelligence</i> , 2019, 8, 215-228.	1.5	45
8	Combining univariate approaches for ensemble change detection in multivariate data. <i>Information Fusion</i> , 2019, 45, 202-214.	11.7	23
9	A taxonomic look at instance-based stream classifiers. <i>Neurocomputing</i> , 2018, 286, 167-178.	3.5	7
10	Edited nearest neighbour for selecting keyframe summaries of egocentric videos. <i>Journal of Visual Communication and Image Representation</i> , 2018, 52, 118-130.	1.7	18
11	On feature selection protocols for very low-sample-size data. <i>Pattern Recognition</i> , 2018, 81, 660-673.	5.1	31
12	Selective Keyframe Summarisation for Egocentric Videos Based on Semantic Concept Search. , 2018, , .		1
13	Budget-Constrained Online Video Summarisation of Egocentric Video Using Control Charts. <i>Lecture Notes in Computer Science</i> , 2018, , 640-649.	1.0	0
14	Restricted Set Classification with prior probabilities: A case study on chessboard recognition. <i>Pattern Recognition Letters</i> , 2018, 111, 36-42.	2.6	3
15	Restricted set classification: Who is there?. <i>Pattern Recognition</i> , 2017, 63, 158-170.	5.1	5
16	Comparing keyframe summaries of egocentric videos: Closest-to-centroid baseline. , 2017, , .		2
17	A concept-drift perspective on prototype selection and generation. , 2016, , .		3
18	Theoretical and Empirical Criteria for the Edited Nearest Neighbour Classifier. , 2015, , .		1

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19	Diversity techniques improve the performance of the best imbalance learning ensembles. Information Sciences, 2015, 325, 98-117.	4.0	141
20	Random Balance: Ensembles of variable priors classifiers for imbalanced data. Knowledge-Based Systems, 2015, 85, 96-111.	4.0	185
21	Technological Advancements in Affective Gaming: A Historical Survey. GSTF International Journal on Computing, 2014, 3, .	0.2	22
22	Occlusion Handling via Random Subspace Classifiers for Human Detection. IEEE Transactions on Cybernetics, 2014, 44, 342-354.	6.2	41
23	A spatial discrepancy measure between voxel sets in brain imaging. Signal, Image and Video Processing, 2014, 8, 913-922.	1.7	0
24	A weighted voting framework for classifiers ensembles. Knowledge and Information Systems, 2014, 38, 259-275.	2.1	176
25	PCA Feature Extraction for Change Detection in Multidimensional Unlabeled Data. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 69-80.	7.2	156
26	On Optimum Thresholding of Multivariate Change Detectors. Lecture Notes in Computer Science, 2014, , 364-373.	1.0	0
27	Who Is Missing? A New Pattern Recognition Puzzle. Lecture Notes in Computer Science, 2014, , 243-252.	1.0	0
28	Interval feature extraction for classification of event-related potentials (ERP) in EEG data analysis. Progress in Artificial Intelligence, 2013, 2, 65-72.	1.5	25
29	A Bound on Kappa-Error Diagrams for Analysis of Classifier Ensembles. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 494-501.	4.0	65
30	Change Detection in Streaming Multivariate Data Using Likelihood Detectors. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 1175-1180.	4.0	83
31	Evaluation of Feature Ranking Ensembles for High-Dimensional Biomedical Data: A Case Study. , 2012, , .		6
32	Exhaled Breath Analysis For Volatile Organic Compounds (VOCs) Can Distinguish COPD From Controls. , 2012, , .		0
33	Classifier Ensemble Methods for Diagnosing COPD from Volatile Organic Compounds in Exhaled Air. International Journal of Knowledge Discovery in Bioinformatics, 2012, 3, 1-15.	0.8	0
34	Correlation Between Breath Profiles Of Exhaled Volatile Organic Compounds (eVOCs) And Global Initiative For Obstructive Lung Disease (GOLD) COPD Stage. , 2012, , .		0
35	Naive random subspace ensemble with linear classifiers for real-time classification of fMRI data. Pattern Recognition, 2012, 45, 2101-2108.	5.1	36
36	Multi-modal Biometric Emotion Recognition Using Classifier Ensembles. Lecture Notes in Computer Science, 2011, , 317-326.	1.0	10

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37	Learn++.MF: A random subspace approach for the missing feature problem. Pattern Recognition, 2010, 43, 3817-3832.	5.1	66
38	Classifier ensembles for fMRI data analysis: an experiment. Magnetic Resonance Imaging, 2010, 28, 583-593.	1.0	71
39	Full-class set classification using the Hungarian algorithm. International Journal of Machine Learning and Cybernetics, 2010, 1, 53-61.	2.3	25
40	Random Subspace Ensembles for fMRI Classification. IEEE Transactions on Medical Imaging, 2010, 29, 531-542.	5.4	191
41	“Good” and “Bad” Diversity in Majority Vote Ensembles. Lecture Notes in Computer Science, 2010, , 124-133.	1.0	71
42	On-Line fMRI Data Classification Using Linear and Ensemble Classifiers. , 2010, , .		9
43	Choosing Parameters for Random Subspace Ensembles for fMRI Classification. Lecture Notes in Computer Science, 2010, , 54-63.	1.0	16
44	On the window size for classification in changing environments. Intelligent Data Analysis, 2009, 13, 861-872.	0.4	48
45	Determining the Training Window for Small Sample Size Classification with Concept Drift. , 2009, , .		8
46	A case-study on naïve labelling for the nearest mean and the linear discriminant classifiers. Pattern Recognition, 2008, 41, 3010-3020.	5.1	10
47	Automated Kerogen Classification in Microscope Images of Dispersed Kerogen Preparation. Mathematical Geosciences, 2008, 40, 639-652.	1.4	7
48	Object segmentation within microscope images of palynofacies. Computers and Geosciences, 2008, 34, 688-698.	2.0	14
49	Linear Discriminant Classifier (LDC) for Streaming Data with Concept Drift. Lecture Notes in Computer Science, 2008, , 4-4.	1.0	0
50	Adaptive Learning Rate for Online Linear Discriminant Classifiers. Lecture Notes in Computer Science, 2008, , 510-519.	1.0	17
51	Error-Dependency Relationships for the Naïve Bayes Classifier with Binary Features. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 735-740.	9.7	6
52	Nearest Neighbour Classifiers for Streaming Data with Delayed Labelling. , 2008, , .		21
53	Combining Online Classification Approaches for Changing Environments. Lecture Notes in Computer Science, 2008, , 520-529.	1.0	15
54	Fuzzy classifiers. Scholarpedia Journal, 2008, 3, 2925.	0.3	11

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55	Classifier Ensembles with a Random Linear Oracle. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 500-508.	4.0	131
56	Diagnosing scrapie in sheep: A classification experiment. Computers in Biology and Medicine, 2007, 37, 1194-1202.	3.9	10
57	Selecting Diversifying Heuristics for Cluster Ensembles. , 2007, , 200-209.		10
58	Naïve Bayes Ensembles with a Random Oracle. , 2007, , 450-458.		17
59	An Experimental Study on Rotation Forest Ensembles. , 2007, , 459-468.		116
60	Evaluation of Stability of k-Means Cluster Ensembles with Respect to Random Initialization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1798-1808.	9.7	262
61	Rotation Forest: A New Classifier Ensemble Method. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1619-1630.	9.7	1,558
62	Moderate diversity for better cluster ensembles. Information Fusion, 2006, 7, 264-275.	11.7	182
63	ROC curves and video analysis optimization in intestinal capsule endoscopy. Pattern Recognition Letters, 2006, 27, 875-881.	2.6	46
64	On the optimality of Naïve Bayes with dependent binary features. Pattern Recognition Letters, 2006, 27, 830-837.	2.6	87
65	Using diversity measures for generating error-correcting output codes in classifier ensembles. Pattern Recognition Letters, 2005, 26, 83-90.	2.6	66
66	Diversity in multiple classifier systems. Information Fusion, 2005, 6, 3-4.	11.7	158
67	An ensemble-based method for linear feature extraction for two-class problems. Pattern Analysis and Applications, 2005, 8, 227-237.	3.1	16
68	Classifier Ensembles for Changing Environments. Lecture Notes in Computer Science, 2004, , 1-15.	1.0	210
69	Measures of Diversity in Classifier Ensembles and Their Relationship with the Ensemble Accuracy. Machine Learning, 2003, 51, 181-207.	3.4	1,814
70	"Fuzzy" versus "nonfuzzy" in combining classifiers designed by boosting. IEEE Transactions on Fuzzy Systems, 2003, 11, 729-741.	6.5	122
71	Marine DGNS Availability and Continuity. Journal of Navigation, 2003, 56, 353-369.	1.0	2
72	That Elusive Diversity in Classifier Ensembles. Lecture Notes in Computer Science, 2003, , 1126-1138.	1.0	87

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73	Error Bounds for Aggressive and Conservative AdaBoost. Lecture Notes in Computer Science, 2003, , 25-34.	1.0	6
74	A theoretical study on six classifier fusion strategies. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2002, 24, 281-286.	9.7	578
75	An experimental study on diversity for bagging and boosting with linear classifiers. Information Fusion, 2002, 3, 245-258.	11.7	133
76	Generating classifier outputs of fixed accuracy and diversity. Pattern Recognition Letters, 2002, 23, 593-600.	2.6	32
77	Relationships between combination methods and measures of diversity in combining classifiers. Information Fusion, 2002, 3, 135-148.	11.7	210
78	Using Diversity with Three Variants of Boosting: Aggressive, Conservative, and Inverse. Lecture Notes in Computer Science, 2002, , 81-90.	1.0	40
79	Using measures of similarity and inclusion for multiple classifier fusion by decision templates. Fuzzy Sets and Systems, 2001, 122, 401-407.	1.6	92
80	Nearest prototype classifier designs: An experimental study. International Journal of Intelligent Systems, 2001, 16, 1445-1473.	3.3	176
81	Decision templates for multiple classifier fusion: an experimental comparison. Pattern Recognition, 2001, 34, 299-314.	5.1	893
82	Feature Subsets for Classifier Combination: An Enumerative Experiment. Lecture Notes in Computer Science, 2001, , 228-237.	1.0	20
83	A fuzzy model of heavy metal loadings in Liverpool bay. Environmental Modelling and Software, 2000, 15, 161-167.	1.9	10
84	Fuzzy Classifier Design. Studies in Fuzziness and Soft Computing, 2000, , .	0.6	347
85	Designing classifier fusion systems by genetic algorithms. IEEE Transactions on Evolutionary Computation, 2000, 4, 327-336.	7.5	183
86	Statistical pattern recognition. Studies in Fuzziness and Soft Computing, 2000, , 15-36.	0.6	0
87	Some Notes on Twenty One 21 Nearest Prototype Classifiers. Lecture Notes in Computer Science, 2000, , 1-16.	1.0	5
88	Nearest neighbor classifier: Simultaneous editing and feature selection. Pattern Recognition Letters, 1999, 20, 1149-1156.	2.6	185
89	Fuzzy diagnosis. Artificial Intelligence in Medicine, 1999, 16, 121-128.	3.8	68
90	Presupervised and post-supervised prototype classifier design. IEEE Transactions on Neural Networks, 1999, 10, 1142-1152.	4.8	16

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91	Will the real iris data please stand up?. IEEE Transactions on Fuzzy Systems, 1999, 7, 368-369.	6.5	100
92	Point Prototype Generation and Classifier Design. , 1999, , 71-96.		2
93	An Integrated Framework for Generalized Nearest Prototype Classifier Design. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 1998, 06, 437-457.	0.9	19
94	Initializing of an RBF network by a genetic algorithm. Neurocomputing, 1997, 14, 273-288.	3.5	31
95	Fitness functions in editing k-NN reference set by genetic algorithms. Pattern Recognition, 1997, 30, 1041-1049.	5.1	69
96	An Application of OWA Operators to the Aggregation of Multiple Classification Decisions. , 1997, , 330-343.		10
97	A fuzzy consensus aggregation operator. Fuzzy Sets and Systems, 1996, 79, 347-356.	1.6	35
98	ON THE EQUIVALENCE BETWEEN FUZZY AND STATISTICAL CLASSIFIERS. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 1996, 04, 245-253.	0.9	21
99	Using degree of consensus in two-level fuzzy pattern recognition. European Journal of Operational Research, 1995, 80, 365-370.	3.5	6
100	Editing for the k-nearest neighbors rule by a genetic algorithm. Pattern Recognition Letters, 1995, 16, 809-814.	2.6	157
101	Improving classification performance using fuzzy MLP and two-level selective partitioning of the feature space. Fuzzy Sets and Systems, 1995, 70, 1-13.	1.6	35
102	On feature selection via rough sets. Lecture Notes in Computer Science, 1995, , 625-630.	1.0	0
103	Experimental investigation on editing for the k-NN rule through a genetic algorithm. Lecture Notes in Computer Science, 1995, , 766-771.	1.0	0
104	Pattern recognition with a model of fuzzy neuron using degree of consensus. Fuzzy Sets and Systems, 1994, 66, 241-250.	1.6	8
105	Genetic algorithm for feature selection for parallel classifiers. Information Processing Letters, 1993, 46, 163-168.	0.4	32
106	An aggregation of PRO and CON evidence for medical decision support systems. Computers in Biology and Medicine, 1993, 23, 417-424.	3.9	14
107	DREAM: a shell-like software system for medical data analysis and decision support. Computer Methods and Programs in Biomedicine, 1993, 40, 73-81.	2.6	7
108	â€˜Change-glassesâ€™ approach in pattern recognition. Pattern Recognition Letters, 1993, 14, 619-623.	2.6	37

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109	Two-level classification schemes in medical diagnostics. International Journal of Bio-medical Computing, 1993, 32, 197-210.	0.5	5
110	A combination scheme of artificial intelligence and fuzzy pattern recognition in medical diagnosis. Lecture Notes in Computer Science, 1993, , 157-164.	1.0	1
111	Fuzzy rough sets: Application to feature selection. Fuzzy Sets and Systems, 1992, 51, 147-153.	1.6	116
112	Additional criteria in fuzzy two-level pattern recognition. Fuzzy Sets and Systems, 1992, 47, 281-291.	1.6	3
113	A critical comment on the paper "redesigning of classification procedures with the use of equality and difference operators". Pattern Recognition, 1992, 25, 1069-1071.	5.1	0
114	Evaluation of computerized medical diagnostic decisions via fuzzy sets. International Journal of Bio-medical Computing, 1991, 28, 91-100.	0.5	11
115	A Decision Making System in Aviation Medicine. Lecture Notes in Medical Informatics, 1991, , 418-422.	0.1	2
116	Fuzzy multi-level classifier for medical applications. Computers in Biology and Medicine, 1990, 20, 421-431.	3.9	19
117	Using key features in pattern classification. Pattern Recognition Letters, 1990, 11, 1-5.	2.6	10