

Mykola Pechenizkiy

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

5,177
citations

279798

23
h-index

161849

54
g-index

111
all docs

111
docs citations

111
times ranked

4530
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey on concept drift adaptation. ACM Computing Surveys, 2014, 46, 1-37.	23.0	2,221
2	Diversity in search strategies for ensemble feature selection. Information Fusion, 2005, 6, 83-98.	19.1	271
3	Building Classifiers with Independency Constraints. , 2009, , .		188
4	Dynamic integration of classifiers for handling concept drift. Information Fusion, 2008, 9, 56-68.	19.1	169
5	An Overview of Concept Drift Applications. Studies in Big Data, 2016, , 91-114.	1.1	164
6	Discrimination Aware Decision Tree Learning. , 2010, , .		161
7	What's Your Current Stress Level? Detection of Stress Patterns from GSR Sensor Data. , 2011, , .		161
8	AH 12 years later: a comprehensive survey of adaptive hypermedia methods and techniques. New Review of Hypermedia and Multimedia, 2009, 15, 5-38.	1.1	144
9	Stress detection from speech and Galvanic Skin Response signals. , 2013, , .		135
10	Dealing With Concept Drifts in Process Mining. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 154-171.	11.3	134
11	A survey on using domain and contextual knowledge for human activity recognition in video streams. Expert Systems With Applications, 2016, 63, 97-111.	7.6	71
12	Bridging learning sciences, machine learning and affective computing for understanding cognition and affect in collaborative learning. British Journal of Educational Technology, 2020, 51, 2391-2406.	6.3	70
13	Twitter rumour detection in the health domain. Expert Systems With Applications, 2018, 110, 33-40.	7.6	67
14	A comparative study of dimensionality reduction techniques to enhance trace clustering performances. Expert Systems With Applications, 2013, 40, 3722-3737.	7.6	63
15	Ensuring cybersecurity of smart grid against data integrity attacks under concept drift. International Journal of Electrical Power and Energy Systems, 2020, 119, 105947.	5.5	57
16	Apriori Versions Based on MapReduce for Mining Frequent Patterns on Big Data. IEEE Transactions on Cybernetics, 2018, 48, 2851-2865.	9.5	54
17	Introduction to the special section on educational data mining. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2012, 13, 3-6.	4.0	43
18	Dynamic Integration with Random Forests. Lecture Notes in Computer Science, 2006, , 801-808.	1.3	43

#	ARTICLE	IF	CITATIONS
19	Stess@Work. , 2012, , .		40
20	Cross-lingual polarity detection with machine translation. , 2013, , .		40
21	EEG-based classification of epilepsy and PNES: EEG microstate and functional brain network features. Brain Informatics, 2020, 7, 6.	3.0	40
22	Beating the baseline prediction in food sales: How intelligent an intelligent predictor is?. Expert Systems With Applications, 2012, 39, 806-815.	7.6	39
23	Speeding-Up Association Rule Mining With Inverted Index Compression. IEEE Transactions on Cybernetics, 2016, 46, 3059-3072.	9.5	33
24	Controlling the accuracy and uncertainty trade-off in RUL prediction with a surrogate Wiener propagation model. Reliability Engineering and System Safety, 2020, 196, 106727.	8.9	31
25	Mining Context-Aware Association Rules Using Grammar-Based Genetic Programming. IEEE Transactions on Cybernetics, 2018, 48, 3030-3044.	9.5	29
26	From Local Patterns to Global Models: Towards Domain Driven Educational Process Mining. , 2009, , .		28
27	ReliefF-MI: An extension of ReliefF to multiple instance learning. Neurocomputing, 2012, 75, 210-218.	5.9	28
28	Online mass flow prediction in CFB boilers with explicit detection of sudden concept drift. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2010, 11, 109-116.	4.0	28
29	Predictive Handling of Asynchronous Concept Drifts in Distributed Environments. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 2343-2355.	5.7	26
30	A white-box anomaly-based framework for database leakage detection. Journal of Information Security and Applications, 2017, 32, 27-46.	2.5	24
31	Defining Adaptation in a Generic Multi Layer Model: CAM: The GRAPPLE Conceptual Adaptation Model. Lecture Notes in Computer Science, 2008, , 132-143.	1.3	24
32	SentiCorr: Multilingual Sentiment Analysis of Personal Correspondence. , 2011, , .		23
33	Sparse evolutionary deep learning with over one million artificial neurons on commodity hardware. Neural Computing and Applications, 2021, 33, 2589-2604.	5.6	21
34	HyDR-MI: A hybrid algorithm to reduce dimensionality in multiple instance learning. Information Sciences, 2013, 222, 282-301.	6.9	19
35	Adaptation of Elaborated Feedback in e-Learning. Lecture Notes in Computer Science, 2008, , 235-244.	1.3	19
36	Detection of Alcoholism Based on EEG Signals and Functional Brain Network Features Extraction. , 2017, , .		17

#	ARTICLE	IF	CITATIONS
37	SpaceNet: Make Free Space for Continual Learning. <i>Neurocomputing</i> , 2021, 439, 1-11.	5.9	17
38	Mining exceptional relationships with grammar-guided genetic programming. <i>Knowledge and Information Systems</i> , 2016, 47, 571-594.	3.2	16
39	ResGCN: attention-based deep residual modeling for anomaly detection on attributed networks. <i>Machine Learning</i> , 2022, 111, 519-541.	5.4	16
40	The impact of sample reduction on PCA-based feature extraction for supervised learning. , 2006, , .		15
41	VANET Meets Deep Learning: The Effect of Packet Loss on the Object Detection Performance. , 2019, , .		15
42	Tailoring Feedback in Online Assessment: Influence of Learning Styles on the Feedback Preferences and Elaborated Feedback Effectiveness. , 2008, , .		14
43	Predicting Current User Intent with Contextual Markov Models. , 2013, , .		14
44	Efficient and effective training of sparse recurrent neural networks. <i>Neural Computing and Applications</i> , 2021, 33, 9625-9636.	5.6	14
45	struc2gauss: Structural role preserving network embedding via Gaussian embedding. <i>Data Mining and Knowledge Discovery</i> , 2020, 34, 1072-1103.	3.7	14
46	Techniques for Discrimination-Free Predictive Models. <i>Studies in Applied Philosophy, Epistemology and Rational Ethics</i> , 2013, , 223-239.	0.3	13
47	Expressive modeling for trusted big data analytics: techniques and applications in sentiment analysis. <i>Big Data Analytics</i> , 2017, 2, .	2.2	12
48	Towards Context Aware Food Sales Prediction. , 2009, , .		10
49	Discovering temporal hidden contexts in web sessions for user trail prediction. , 2013, , .		10
50	Pattern-Based Emotion Classification on Social Media. <i>Studies in Computational Intelligence</i> , 2015, , 1-20.	0.9	10
51	Limited evaluation cooperative co-evolutionary differential evolution for large-scale neuroevolution. , 2018, , .		10
52	Context-Aware Personal Route Recognition. <i>Lecture Notes in Computer Science</i> , 2011, , 221-235.	1.3	10
53	Food Sales Prediction: "If Only It Knew What We Know". , 2008, , .		9
54	Assessment of visibility graph similarity as a synchronization measure for chaotic, noisy and stochastic time series. <i>Social Network Analysis and Mining</i> , 2018, 8, 1.	2.8	9

#	ARTICLE	IF	CITATIONS
55	Analyzing and repairing concept drift adaptation in data stream classification. Machine Learning, 2022, 111, 3489-3523.	5.4	9
56	eHealth personalization in the next generation RPM systems. , 2009, , .		8
57	Handling concept drift in medical applications: Importance, challenges and solutions. , 2010, , .		8
58	Health-related rumour detection on Twitter. , 2017, , .		8
59	Tink. , 2018, , .		8
60	HM-EIICT: Fairness-aware link prediction in complex networks using community information. Journal of Combinatorial Optimization, 2022, 44, 2853-2870.	1.3	8
61	Quick and robust feature selection: the strength of energy-efficient sparse training for autoencoders. Machine Learning, 0, , 1.	5.4	8
62	RBEM. , 2013, , .		7
63	Structural measures of clustering quality on graph samples. , 2016, , .		7
64	Finding Predictive EEG Complexity Features for Classification of Epileptic and Psychogenic Nonepileptic Seizures Using Imperialist Competitive Algorithm. , 2018, , .		7
65	DyNMF: Role Analytics in Dynamic Social Networks. , 2018, , .		7
66	Generation of False Data Injection Attacks using Conditional Generative Adversarial Networks. , 2020, , .		7
67	Local Dimensionality Reduction and Supervised Learning Within Natural Clusters for Biomedical Data Analysis. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 533-539.	3.2	6
68	Towards Proximity Tracking and Sensemaking for Supporting Teamwork and Learning. , 2017, , .		6
69	Cluster-preserving sampling from fully-dynamic streaming graphs. Information Sciences, 2019, 482, 279-300.	6.9	6
70	Recurring concept memory management in data streams: exploiting data stream concept evolution to improve performance and transparency. Data Mining and Knowledge Discovery, 2021, 35, 796-836.	3.7	6
71	Knowledge Discovery from Microbiology Data: Many-Sided Analysis of Antibiotic Resistance in Nosocomial Infections. Lecture Notes in Computer Science, 2005, , 360-372.	1.3	6
72	Multi-strategy Differential Evolution. Lecture Notes in Computer Science, 2018, , 617-633.	1.3	6

#	ARTICLE	IF	CITATIONS
73	A DSL based on CSS for hypertext adaptation. , 2014, , .		5
74	Application of Horizontal Visibility Graph as a Robust Measure of Neurophysiological Signals Synchrony. , 2016, , .		5
75	Modelling Embodied Mobility Teamwork Strategies in a Simulation-Based Healthcare Classroom. , 2017, , .		5
76	Evolving Plasticity for Autonomous Learning under Changing Environmental Conditions. Evolutionary Computation, 2021, 29, 391-414.	3.0	5
77	A robust density-based clustering algorithm for multi-manifold structure. , 2016, , .		5
78	On structure preserving sampling and approximate partitioning of graphs. , 2016, , .		5
79	Personalization of Immediate Feedback to Learning Styles. , 2007, , .		4
80	Knowledge discovery and computer-based decision support in biomedicine. Artificial Intelligence in Medicine, 2010, 50, 1-2.	6.5	4
81	Learning with Actionable Attributes: Attention – Boundary Cases!. , 2010, , .		4
82	Feature selection is the ReliefF for multiple instance learning. , 2010, , .		4
83	The influence of dataset size on the performance of cell outage detection approach in LTE-A networks. , 2015, , .		4
84	Learning with delayed synaptic plasticity. , 2019, , .		4
85	Reducing Dimensionality in Multiple Instance Learning with a Filter Method. Lecture Notes in Computer Science, 2010, , 35-44.	1.3	4
86	ACLAC: An approach for adaptive closed-loop anesthesia control. , 2013, , .		3
87	BLPA: Bayesian learn-predict-adjust method for online detection of recurrent changepoints. , 2017, , .		3
88	Mining sequences with exceptional transition behaviour of varying order using quality measures based on information-theoretic scoring functions. Data Mining and Knowledge Discovery, 2022, 36, 379-413.	3.7	3
89	Introduction to the special issue on handling concept drift in adaptive information systems. Evolving Systems, 2013, 4, 1-2.	3.9	2
90	Modelling Recurrent Events for Improving Online Change Detection. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
91	A bounded-size clustering algorithm on fully-dynamic streaming graphs. Intelligent Data Analysis, 2018, 22, 1039-1058.	0.9	2
92	Introduction to The Special Section on Bias and Fairness in AI. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2021, 23, 1-3.	4.0	2
93	Infinite motif stochastic blockmodel for role discovery in networks. , 2019, , .		2
94	Workshop on Educational Data Mining @ ICALT07 (EDM@ICALT07). , 2007, , .		1
95	Effectiveness of Local Feature Selection in Ensemble Learning for Prediction of Antimicrobial Resistance. , 2008, , .		1
96	Dynamic and adaptive hypertext. , 2009, , .		1
97	Provenance meets adaptive hypermedia. , 2010, , .		1
98	Adaptation and search. , 2010, , .		1
99	Towards the Stress Analytics Framework: Managing, Mining, and Visualizing Multi-modal Data for Stress Awareness. , 2014, , .		1
100	Clustering-Structure Representative Sampling from Graph Streams. Studies in Computational Intelligence, 2018, , 265-277.	0.9	1
101	Exceptional in so Many Ways“Discovering Descriptors That Display Exceptional Behavior on Contrasting Scenarios. IEEE Access, 2020, 8, 200982-200994.	4.2	1
102	How Fair is Fairness-aware Representative Ranking?. , 2021, , .		1
103	Analyzing and Repairing Concept Drift Adaptation in Data Stream Classification. , 2021, , .		1
104	Novelty producing synaptic plasticity. , 2020, , .		1
105	Trends in computer-based medical systems. ACM SIGHIT Record, 2012, 2, 46-50.	0.5	0
106	Hippocrates: A Context-Aware, Collaboration Enabling Search Tool. , 2015, , .		0
107	DOBRO. , 2016, , .		0
108	Supervised Human-Guided Data Exploration. Communications in Computer and Information Science, 2020, , 85-101.	0.5	0