

Mykola Pechenizkiy

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9553366/publications.pdf>

Version: 2024-02-01

108
papers

5,177
citations

318942

23
h-index

182931

54
g-index

111
all docs

111
docs citations

111
times ranked

5070
citing authors

#	ARTICLE	IF	CITATIONS
1	Analyzing and repairing concept drift adaptation in data stream classification. Machine Learning, 2022, 111, 3489-3523.	3.4	9
2	HM-EIICT: Fairness-aware link prediction in complex networks using community information. Journal of Combinatorial Optimization, 2022, 44, 2853-2870.	0.8	8
3	ResGCN: attention-based deep residual modeling for anomaly detection on attributed networks. Machine Learning, 2022, 111, 519-541.	3.4	16
4	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.	2.4	3
5	Sparse evolutionary deep learning with over one million artificial neurons on commodity hardware. Neural Computing and Applications, 2021, 33, 2589-2604.	3.2	21
6	Evolving Plasticity for Autonomous Learning under Changing Environmental Conditions. Evolutionary Computation, 2021, 29, 391-414.	2.3	5
7	Efficient and effective training of sparse recurrent neural networks. Neural Computing and Applications, 2021, 33, 9625-9636.	3.2	14
8	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.	2.4	6
9	How Fair is Fairness-aware Representative Ranking?. , 2021, , .		1
10	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.	3.2	2
11	SpaceNet: Make Free Space for Continual Learning. Neurocomputing, 2021, 439, 1-11.	3.5	17
12	Analyzing and Repairing Concept Drift Adaptation in Data Stream Classification. , 2021, , .		1
13	Controlling the accuracy and uncertainty trade-off in RUL prediction with a surrogate Wiener propagation model. Reliability Engineering and System Safety, 2020, 196, 106727.	5.1	31
14	Exceptional in so Many Ways“Discovering Descriptors That Display Exceptional Behavior on Contrasting Scenarios. IEEE Access, 2020, 8, 200982-200994.	2.6	1
15	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.	3.9	70
16	Ensuring cybersecurity of smart grid against data integrity attacks under concept drift. International Journal of Electrical Power and Energy Systems, 2020, 119, 105947.	3.3	57
17	struc2gauss: Structural role preserving network embedding via Gaussian embedding. Data Mining and Knowledge Discovery, 2020, 34, 1072-1103.	2.4	14
18	EEG-based classification of epilepsy and PNES: EEG microstate and functional brain network features. Brain Informatics, 2020, 7, 6.	1.8	40

#	ARTICLE	IF	CITATIONS
19	Supervised Human-Guided Data Exploration. Communications in Computer and Information Science, 2020, , 85-101.	0.4	0
20	Novelty producing synaptic plasticity. , 2020, , .		1
21	Generation of False Data Injection Attacks using Conditional Generative Adversarial Networks. , 2020, , .		7
22	VANET Meets Deep Learning: The Effect of Packet Loss on the Object Detection Performance. , 2019, , .		15
23	Learning with delayed synaptic plasticity. , 2019, , .		4
24	Cluster-preserving sampling from fully-dynamic streaming graphs. Information Sciences, 2019, 482, 279-300.	4.0	6
25	Infinite motif stochastic blockmodel for role discovery in networks. , 2019, , .		2
26	Mining Context-Aware Association Rules Using Grammar-Based Genetic Programming. IEEE Transactions on Cybernetics, 2018, 48, 3030-3044.	6.2	29
27	Clustering-Structure Representative Sampling from Graph Streams. Studies in Computational Intelligence, 2018, , 265-277.	0.7	1
28	Apriori Versions Based on MapReduce for Mining Frequent Patterns on Big Data. IEEE Transactions on Cybernetics, 2018, 48, 2851-2865.	6.2	54
29	Limited evaluation cooperative co-evolutionary differential evolution for large-scale neuroevolution. , 2018, , .		10
30	Tink. , 2018, , .		8
31	A bounded-size clustering algorithm on fully-dynamic streaming graphs. Intelligent Data Analysis, 2018, 22, 1039-1058.	0.4	2
32	Twitter rumour detection in the health domain. Expert Systems With Applications, 2018, 110, 33-40.	4.4	67
33	Assessment of visibility graph similarity as a synchronization measure for chaotic, noisy and stochastic time series. Social Network Analysis and Mining, 2018, 8, 1.	1.9	9
34	Finding Predictive EEG Complexity Features for Classification of Epileptic and Psychogenic Nonepileptic Seizures Using Imperialist Competitive Algorithm. , 2018, , .		7
35	Multi-strategy Differential Evolution. Lecture Notes in Computer Science, 2018, , 617-633.	1.0	6
36	DyNMF: Role Analytics in Dynamic Social Networks. , 2018, , .		7

#	ARTICLE	IF	CITATIONS
37	Expressive modeling for trusted big data analytics: techniques and applications in sentiment analysis. <i>Big Data Analytics</i> , 2017, 2, .	2.2	12
38	Towards Proximity Tracking and Sensemaking for Supporting Teamwork and Learning. , 2017, , .		6
39	A white-box anomaly-based framework for database leakage detection. <i>Journal of Information Security and Applications</i> , 2017, 32, 27-46.	1.8	24
40	Detection of Alcoholism Based on EEG Signals and Functional Brain Network Features Extraction. , 2017, , .		17
41	Health-related rumour detection on Twitter. , 2017, , .		8
42	Modelling Embodied Mobility Teamwork Strategies in a Simulation-Based Healthcare Classroom. , 2017, , .		5
43	BLPA: Bayesian learn-predict-adjust method for online detection of recurrent changepoints. , 2017, , .		3
44	Structural measures of clustering quality on graph samples. , 2016, , .		7
45	Mining exceptional relationships with grammar-guided genetic programming. <i>Knowledge and Information Systems</i> , 2016, 47, 571-594.	2.1	16
46	Application of Horizontal Visibility Graph as a Robust Measure of Neurophysiological Signals Synchrony. , 2016, , .		5
47	Modelling Recurrent Events for Improving Online Change Detection. , 2016, , .		2
48	A survey on using domain and contextual knowledge for human activity recognition in video streams. <i>Expert Systems With Applications</i> , 2016, 63, 97-111.	4.4	71
49	Speeding-Up Association Rule Mining With Inverted Index Compression. <i>IEEE Transactions on Cybernetics</i> , 2016, 46, 3059-3072.	6.2	33
50	An Overview of Concept Drift Applications. <i>Studies in Big Data</i> , 2016, , 91-114.	0.8	164
51	A robust density-based clustering algorithm for multi-manifold structure. , 2016, , .		5
52	On structure preserving sampling and approximate partitioning of graphs. , 2016, , .		5
53	DOBRO. , 2016, , .		0
54	The influence of dataset size on the performance of cell outage detection approach in LTE-A networks. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
55	Hippocrates: A Context-Aware, Collaboration Enabling Search Tool. , 2015, , .		0
56	Pattern-Based Emotion Classification on Social Media. Studies in Computational Intelligence, 2015, , 1-20.	0.7	10
57	A DSL based on CSS for hypertext adaptation. , 2014, , .		5
58	Towards the Stress Analytics Framework: Managing, Mining, and Visualizing Multi-modal Data for Stress Awareness. , 2014, , .		1
59	Dealing With Concept Drifts in Process Mining. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 154-171.	7.2	134
60	A survey on concept drift adaptation. ACM Computing Surveys, 2014, 46, 1-37.	16.1	2,221
61	HyDR-MI: A hybrid algorithm to reduce dimensionality in multiple instance learning. Information Sciences, 2013, 222, 282-301.	4.0	19
62	Introduction to the special issue on handling concept drift in adaptive information systems. Evolving Systems, 2013, 4, 1-2.	2.4	2
63	A comparative study of dimensionality reduction techniques to enhance trace clustering performances. Expert Systems With Applications, 2013, 40, 3722-3737.	4.4	63
64	Predicting Current User Intent with Contextual Markov Models. , 2013, , .		14
65	Stress detection from speech and Galvanic Skin Response signals. , 2013, , .		135
66	ACLAC: An approach for adaptive closed-loop anesthesia control. , 2013, , .		3
67	RBEM. , 2013, , .		7
68	Cross-lingual polarity detection with machine translation. , 2013, , .		40
69	Predictive Handling of Asynchronous Concept Drifts in Distributed Environments. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 2343-2355.	4.0	26
70	Discovering temporal hidden contexts in web sessions for user trail prediction. , 2013, , .		10
71	Techniques for Discrimination-Free Predictive Models. Studies in Applied Philosophy, Epistemology and Rational Ethics, 2013, , 223-239.	0.2	13
72	Trends in computer-based medical systems. ACM SIGHIT Record, 2012, 2, 46-50.	0.5	0

#	ARTICLE	IF	CITATIONS
73	Stess@Work. , 2012, , .		40
74	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.	3.2	43
75	Beating the baseline prediction in food sales: How intelligent an intelligent predictor is?. Expert Systems With Applications, 2012, 39, 806-815.	4.4	39
76	ReliefF-MI: An extension of ReliefF to multiple instance learning. Neurocomputing, 2012, 75, 210-218.	3.5	28
77	What's Your Current Stress Level? Detection of Stress Patterns from GSR Sensor Data. , 2011, , .		161
78	SentiCorr: Multilingual Sentiment Analysis of Personal Correspondence. , 2011, , .		23
79	Context-Aware Personal Route Recognition. Lecture Notes in Computer Science, 2011, , 221-235.	1.0	10
80	Knowledge discovery and computer-based decision support in biomedicine. Artificial Intelligence in Medicine, 2010, 50, 1-2.	3.8	4
81	Learning with Actionable Attributes: Attention – Boundary Cases!. , 2010, , .		4
82	Provenance meets adaptive hypermedia. , 2010, , .		1
83	Adaptation and search. , 2010, , .		1
84	Handling concept drift in medical applications: Importance, challenges and solutions. , 2010, , .		8
85	Feature selection is the ReliefF for multiple instance learning. , 2010, , .		4
86	Discrimination Aware Decision Tree Learning. , 2010, , .		161
87	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.	3.2	28
88	Reducing Dimensionality in Multiple Instance Learning with a Filter Method. Lecture Notes in Computer Science, 2010, , 35-44.	1.0	4
89	From Local Patterns to Global Models: Towards Domain Driven Educational Process Mining. , 2009, , .		28
90	Dynamic and adaptive hypertext. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
91	Building Classifiers with Independency Constraints. , 2009, , .		188
92	AH 12 years later: a comprehensive survey of adaptive hypermedia methods and techniques. New Review of Hypermedia and Multimedia, 2009, 15, 5-38.	0.9	144
93	Towards Context Aware Food Sales Prediction. , 2009, , .		10
94	eHealth personalization in the next generation RPM systems. , 2009, , .		8
95	Dynamic integration of classifiers for handling concept drift. Information Fusion, 2008, 9, 56-68.	11.7	169
96	Food Sales Prediction: "If Only It Knew What We Know". , 2008, , .		9
97	Effectiveness of Local Feature Selection in Ensemble Learning for Prediction of Antimicrobial Resistance. , 2008, , .		1
98	Tailoring Feedback in Online Assessment: Influence of Learning Styles on the Feedback Preferences and Elaborated Feedback Effectiveness. , 2008, , .		14
99	Adaptation of Elaborated Feedback in e-Learning. Lecture Notes in Computer Science, 2008, , 235-244.	1.0	19
100	Defining Adaptation in a Generic Multi Layer Model: CAM: The GRAPPLE Conceptual Adaptation Model. Lecture Notes in Computer Science, 2008, , 132-143.	1.0	24
101	Personalization of Immediate Feedback to Learning Styles. , 2007, , .		4
102	Workshop on Educational Data Mining @ ICALT07 (EDM@ICALT07). , 2007, , .		1
103	Local Dimensionality Reduction and Supervised Learning Within Natural Clusters for Biomedical Data Analysis. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 533-539.	3.6	6
104	The impact of sample reduction on PCA-based feature extraction for supervised learning. , 2006, , .		15
105	Dynamic Integration with Random Forests. Lecture Notes in Computer Science, 2006, , 801-808.	1.0	43
106	Diversity in search strategies for ensemble feature selection. Information Fusion, 2005, 6, 83-98.	11.7	271
107	Knowledge Discovery from Microbiology Data: Many-Sided Analysis of Antibiotic Resistance in Nosocomial Infections. Lecture Notes in Computer Science, 2005, , 360-372.	1.0	6
108	Quick and robust feature selection: the strength of energy-efficient sparse training for autoencoders. Machine Learning, 0, , 1.	3.4	8