

Longbing Cao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7929334/publications.pdf>

Version: 2024-02-01

326
papers

7,800
citations

101543

36
h-index

102487

66
g-index

338
all docs

338
docs citations

338
times ranked

4648
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning for Anomaly Detection. ACM Computing Surveys, 2022, 54, 1-38.	23.0	880
2	Training deep neural networks on imbalanced data sets. , 2016, , .		240
3	Data Science. ACM Computing Surveys, 2018, 50, 1-42.	23.0	232
4	Effective detection of sophisticated online banking fraud on extremely imbalanced data. World Wide Web, 2013, 16, 449-475.	4.0	217
5	Sequential Recommender Systems: Challenges, Progress and Prospects. , 2019, , .		203
6	A Survey on Session-based Recommender Systems. ACM Computing Surveys, 2022, 54, 1-38.	23.0	199
7	In-depth behavior understanding and use: The behavior informatics approach. Information Sciences, 2010, 180, 3067-3085.	6.9	184
8	USpan. , 2012, , .		178
9	Personalized recommendation via cross-domain triadic factorization. , 2013, , .		158
10	Coupled Behavior Analysis with Applications. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1378-1392.	5.7	126
11	Agent Mining: The Synergy of Agents and Data Mining. IEEE Intelligent Systems, 2009, 24, 64-72.	4.0	119
12	Learning Representations of Ultrahigh-dimensional Data for Random Distance-based Outlier Detection. , 2018, , .		117
13	Coupling learning of complex interactions. Information Processing and Management, 2015, 51, 167-186.	8.6	112
14	SVDD-based outlier detection on uncertain data. Knowledge and Information Systems, 2013, 34, 597-618.	3.2	105
15	Domain-Driven Data Mining: Challenges and Prospects. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 755-769.	5.7	104
16	GeoMF++. ACM Transactions on Information Systems, 2018, 36, 1-29.	4.9	90
17	Scientific Article Recommendation: Exploiting Common Author Relations and Historical Preferences. IEEE Transactions on Big Data, 2016, 2, 101-112.	6.1	89
18	Graph Learning based Recommender Systems: A Review. , 2021, , .		82

#	ARTICLE	IF	CITATIONS
19	Data science. Communications of the ACM, 2017, 60, 59-68.	4.5	80
20	Modeling Multi-Purpose Sessions for Next-Item Recommendations via Mixture-Channel Purpose Routing Networks. , 2019, , .		80
21	Septic shock prediction for ICU patients via coupled HMM walking on sequential contrast patterns. Journal of Biomedical Informatics, 2017, 66, 19-31.	4.3	76
22	Minimax Probability TSK Fuzzy System Classifier: A More Transparent and Highly Interpretable Classification Model. IEEE Transactions on Fuzzy Systems, 2015, 23, 813-826.	9.8	66
23	Domain-Driven, Actionable Knowledge Discovery. IEEE Intelligent Systems, 2007, 22, 78-88, c3.	4.0	62
24	Efficiently Mining Top-K High Utility Sequential Patterns. , 2013, , .		62
25	T2FELA: Type-2 Fuzzy Extreme Learning Algorithm for Fast Training of Interval Type-2 TSK Fuzzy Logic System. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 664-676.	11.3	62
26	Diversifying Personalized Recommendation with User-session Context. , 2017, , .		62
27	Mining Partially-Ordered Sequential Rules Common to Multiple Sequences. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2203-2216.	5.7	60
28	Coupled Attribute Similarity Learning on Categorical Data. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 781-797.	11.3	59
29	MRM-Lasso: A Sparse Multiview Feature Selection Method via Low-Rank Analysis. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2801-2815.	11.3	56
30	Coupled nominal similarity in unsupervised learning. , 2011, , .		54
31	Mining Frequent Patterns from Human Interactions in Meetings Using Directed Acyclic Graphs. Lecture Notes in Computer Science, 2013, , 38-49.	1.3	53
32	Flexible Frameworks for Actionable Knowledge Discovery. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 1299-1312.	5.7	51
33	THE EVOLUTION OF KDD: TOWARDS DOMAIN-DRIVEN DATA MINING. International Journal of Pattern Recognition and Artificial Intelligence, 2007, 21, 677-692.	1.2	49
34	Discrete Content-aware Matrix Factorization. , 2017, , .		49
35	Domain Driven Data Mining. , 2010, , .		48
36	Mining Impact-Targeted Activity Patterns in Imbalanced Data. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 1053-1066.	5.7	47

#	ARTICLE	IF	CITATIONS
37	Combined Mining: Discovering Informative Knowledge in Complex Data. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 699-712.	5.0	46
38	An Efficient Approach for Outlier Detection with Imperfect Data Labels. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1602-1616.	5.7	46
39	Actionable knowledge discovery and delivery. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2012, 2, 149-163.	6.8	44
40	e-NSP: Efficient negative sequential pattern mining. Artificial Intelligence, 2016, 235, 156-182.	5.8	44
41	Effective lossless condensed representation and discovery of spatial co-location patterns. Information Sciences, 2018, 436-437, 197-213.	6.9	43
42	Margin-based ensemble classifier for protein fold recognition. Expert Systems With Applications, 2011, 38, 12348-12355.	7.6	42
43	A brief introduction to agent mining. Autonomous Agents and Multi-Agent Systems, 2012, 25, 419-424.	2.1	42
44	A novel graph-based k-means for nonlinear manifold clustering and representative selection. Neurocomputing, 2014, 143, 109-122.	5.9	42
45	An effective contrast sequential pattern mining approach to taxpayer behavior analysis. World Wide Web, 2016, 19, 633-651.	4.0	42
46	Knowledge actionability: satisfying technical and business interestingness. International Journal of Business Intelligence and Data Mining, 2007, 2, 496.	0.2	41
47	e-RNSP: An Efficient Method for Mining Repetition Negative Sequential Patterns. IEEE Transactions on Cybernetics, 2020, 50, 2084-2096.	9.5	41
48	TRASMIL: A local anomaly detection framework based on trajectory segmentation and multi-instance learning. Computer Vision and Image Understanding, 2013, 117, 1273-1286.	4.7	37
49	Non-IID Recommender Systems: A Review and Framework of Recommendation Paradigm Shifting. Engineering, 2016, 2, 212-224.	6.7	37
50	Data science and AI in FinTech: an overview. International Journal of Data Science and Analytics, 2021, 12, 81-99.	4.1	37
51	CoupledCF: Learning Explicit and Implicit User-item Couplings in Recommendation for Deep Collaborative Filtering. , 2018, , .		37
52	Intention2Basket: A Neural Intention-driven Approach for Dynamic Next-basket Planning. , 2020, , .		36
53	Intention Nets: Psychology-Inspired User Choice Behavior Modeling for Next-Basket Prediction. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 6259-6266.	4.9	35
54	Toward Deep Supervised Anomaly Detection. , 2021, , .		35

#	ARTICLE	IF	CITATIONS
55	Metasynthesis: M-Space, M-Interaction, and M-Computing for Open Complex Giant Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 1007-1021.	2.9	34
56	A Similarity-Based Classification Framework for Multiple-Instance Learning. IEEE Transactions on Cybernetics, 2014, 44, 500-515.	9.5	34
57	Heterogeneous Metric Learning of Categorical Data with Hierarchical Couplings. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1254-1267.	5.7	34
58	Mining Top- k Useful Negative Sequential Patterns via Learning. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2764-2778.	11.3	34
59	Inferring Implicit Rules by Learning Explicit and Hidden Item Dependency. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 935-946.	9.3	34
60	Domain-Driven Data Mining. International Journal of Data Warehousing and Mining, 2006, 2, 49-65.	0.6	33
61	Coupled term-term relation analysis for document clustering. , 2013, , .		32
62	Online Video Recommendation in Sharing Community. , 2015, , .		32
63	CURE: Flexible Categorical Data Representation by Hierarchical Coupling Learning. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 853-866.	5.7	32
64	A honey-bee-mating based algorithm for multilevel image segmentation using Bayesian theorem. Applied Soft Computing Journal, 2017, 52, 1181-1190.	7.2	31
65	Data Science Thinking. Data Analytics, 2018, , .	0.8	31
66	Uncertain One-Class Learning and Concept Summarization Learning on Uncertain Data Streams. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 468-484.	5.7	30
67	Unsupervised Feature Selection for Outlier Detection by Modelling Hierarchical Value-Feature Couplings. , 2016, , .		30
68	Enhancing online video recommendation using social user interactions. VLDB Journal, 2017, 26, 637-656.	4.1	30
69	HERS: Modeling Influential Contexts with Heterogeneous Relations for Sparse and Cold-Start Recommendation. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 3830-3837.	4.9	30
70	Domain-Driven Actionable Knowledge Discovery in the Real World. Lecture Notes in Computer Science, 2006, , 821-830.	1.3	30
71	Engineering Open Complex Agent Systems: A Case Study. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2008, 38, 483-496.	2.9	28
72	Combined mining: Analyzing object and pattern relations for discovering and constructing complex yet actionable patterns. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2013, 3, 140-155.	6.8	28

#	ARTICLE	IF	CITATIONS
73	Nonoccurring Behavior Analytics: A New Area. IEEE Intelligent Systems, 2015, 30, 4-11.	4.0	28
74	High-order Proximity Preserving Information Network Hashing. , 2018, , .		28
75	Agent-Mining Interaction: An Emerging Area. , 2007, , 60-73.		28
76	Learning Homophily Couplings from Non-IID Data for Joint Feature Selection and Noise-Resilient Outlier Detection. , 2017, , .		27
77	SVM-based multi-state-mapping approach for multi-class classification. Knowledge-Based Systems, 2017, 129, 79-96.	7.1	26
78	Perceiving the Next Choice with Comprehensive Transaction Embeddings for Online Recommendation. Lecture Notes in Computer Science, 2017, , 285-302.	1.3	26
79	Multi-sphere Support Vector Data Description for Outliers Detection on Multi-distribution Data. , 2009, , .		25
80	Coupled behavior analysis for capturing coupling relationships in group-based market manipulations. , 2012, , .		25
81	Learning Nonparametric Relational Models by Conjugately Incorporating Node Information in a Network. IEEE Transactions on Cybernetics, 2017, 47, 589-599.	9.5	25
82	Hierarchical Attentive Transaction Embedding With Intra- and Inter-Transaction Dependencies for Next-Item Recommendation. IEEE Intelligent Systems, 2021, 36, 56-64.	4.0	25
83	Detecting abnormal coupled sequences and sequence changes in group-based manipulative trading behaviors. , 2010, , .		24
84	An Efficient GA-Based Algorithm for Mining Negative Sequential Patterns. Lecture Notes in Computer Science, 2010, , 262-273.	1.3	24
85	AI in Finance: A Review. SSRN Electronic Journal, 0, , .	0.4	24
86	Unsupervised Coupled Metric Similarity for Non-IID Categorical Data. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1810-1823.	5.7	23
87	F-NSP  overflow="scroll"> <math>\sum_{i=1}^n <math>: A fast negative sequential patterns mining method with self-adaptive data storage. Pattern Recognition, 2018, 84, 13-27.	8.1	23
88	Coupled clustering ensemble: Incorporating coupling relationships both between base clusterings and objects. , 2013, , .		21
89	Behavior Informatics: A New Perspective. IEEE Intelligent Systems, 2014, 29, 62-80.	4.0	21
90	Formalization and Verification of Group Behavior Interactions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 1109-1124.	9.3	21

#	ARTICLE	IF	CITATIONS
91	Agents and Data Mining: Mutual Enhancement by Integration. Lecture Notes in Computer Science, 2005, , 50-61.	1.3	20
92	Mining for combined association rules on multiple datasets. , 2007, , .		20
93	The Era of Intelligent Recommendation: Editorial on Intelligent Recommendation with Advanced AI and Learning. IEEE Intelligent Systems, 2020, 35, 3-6.	4.0	20
94	Combined Association Rule Mining. , 2008, , 1069-1074.		20
95	A New Age of AI: Features and Futures. IEEE Intelligent Systems, 2022, 37, 25-37.	4.0	20
96	e-NSP. , 2011, , .		19
97	A K-Farthest-Neighbor-based approach for support vector data description. Applied Intelligence, 2014, 41, 196-211.	5.3	19
98	Evolving soft subspace clustering. Applied Soft Computing Journal, 2014, 14, 210-228.	7.2	19
99	Learning Informative Priors from Heterogeneous Domains to Improve Recommendation in Cold-Start User Domains. ACM Transactions on Information Systems, 2017, 35, 1-37.	4.9	19
100	Data science and analytics: a new era. International Journal of Data Science and Analytics, 2016, 1, 1-2.	4.1	19
101	Two-level matrix factorization for recommender systems. Neural Computing and Applications, 2016, 27, 2267-2278.	5.6	19
102	Selective Value Coupling Learning for Detecting Outliers in High-Dimensional Categorical Data. , 2017, , .		19
103	Unsupervised Heterogeneous Coupling Learning for Categorical Representation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 533-549.	13.9	19
104	Neural Time-Aware Sequential Recommendation by Jointly Modeling Preference Dynamics and Explicit Feature Couplings. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5125-5137.	11.3	19
105	Mining Both Positive and Negative Impact-Oriented Sequential Rules from Transactional Data. Lecture Notes in Computer Science, 2009, , 656-663.	1.3	19
106	ACTIVITY MINING: FROM ACTIVITIES TO ACTIONS. International Journal of Information Technology and Decision Making, 2008, 07, 259-273.	3.9	18
107	Social Image Analysis From a Non-IID Perspective. IEEE Transactions on Multimedia, 2014, 16, 1986-1998.	7.2	18
108	HCBC: A Hierarchical Case-Based Classifier Integrated with Conceptual Clustering. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 152-165.	5.7	18

#	ARTICLE	IF	CITATIONS
109	A Novel Prototype Reduction Method for the K-Nearest Neighbor Algorithm with $K \geq 1$. Lecture Notes in Computer Science, 2010, , 89-100.	1.3	18
110	Automatic multilevel thresholding for image segmentation using stratified sampling and Tabu Search. Soft Computing, 2015, 19, 2605-2617.	3.6	17
111	Improving the Quality of Recommendations for Users and Items in the Tail of Distribution. ACM Transactions on Information Systems, 2017, 35, 1-37.	4.9	17
112	Exploring Feature Coupling and Model Coupling for Image Source Identification. IEEE Transactions on Information Forensics and Security, 2018, 13, 3108-3121.	6.9	17
113	Behavior Informatics and Analytics: Let Behavior Talk. , 2008, , .		16
114	Data Science: Nature and Pitfalls. IEEE Intelligent Systems, 2016, 31, 66-75.	4.0	16
115	Concept coupling learning for improving concept lattice-based document retrieval. Engineering Applications of Artificial Intelligence, 2018, 69, 65-75.	8.1	16
116	Interactive Probabilistic Post-Mining of User-Preferred Spatial Co-Location Patterns. , 2018, , .		16
117	Coupled Node Similarity Learning for Community Detection in Attributed Networks. Entropy, 2018, 20, 471.	2.2	16
118	Embedding-based Representation of Categorical Data by Hierarchical Value Coupling Learning. , 2017, , .		16
119	Learning Multiaspect Traffic Couplings by Multirelational Graph Attention Networks for Traffic Prediction. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20681-20695.	8.0	16
120	Efficient Mining of Event-Oriented Negative Sequential Rules. , 2008, , .		15
121	Debt Detection in Social Security by Sequence Classification Using Both Positive and Negative Patterns. Lecture Notes in Computer Science, 2009, , 648-663.	1.3	15
122	Permutation anonymization. Journal of Intelligent Information Systems, 2016, 47, 427-445.	3.9	15
123	Deep Learning for Anomaly Detection: Challenges, Methods, and Opportunities. , 2021, , .		15
124	Interpretable Recommendation via Attraction Modeling: Learning Multilevel Attractiveness over Multimodal Movie Contents. , 2018, , .		15
125	Domain-Driven Data Mining. , 2008, , 831-848.		15
126	Social Security and Social Welfare Data Mining: An Overview. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 837-853.	2.9	14

#	ARTICLE	IF	CITATIONS
127	Optimal feature selection for sparse linear discriminant analysis and its applications in gene expression data. Computational Statistics and Data Analysis, 2013, 66, 140-149.	1.2	14
128	A Coupled Clustering Approach for Items Recommendation. Lecture Notes in Computer Science, 2013, , 365-376.	1.3	14
129	Dynamic Infinite Mixed-Membership Stochastic Blockmodel. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2072-2085.	11.3	14
130	Mining Top K Spread Sources for a Specific Topic and a Given Node. IEEE Transactions on Cybernetics, 2015, 45, 2472-2483.	9.5	14
131	Classification of high-dimensional evolving data streams via a resource-efficient online ensemble. Data Mining and Knowledge Discovery, 2017, 31, 1242-1265.	3.7	14
132	Domain Driven Data Mining (D3M). , 2008, , .		13
133	mPadal: a joint local-and-global multi-view feature selection method for activity recognition. Applied Intelligence, 2014, 41, 776-790.	5.3	13
134	Multi-View Information-Theoretic Co-Clustering for Co-Occurrence Data. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 379-386.	4.9	13
135	Exploiting Local Data Uncertainty to Boost Global Outlier Detection. , 2010, , .		12
136	Data Science: Profession and Education. IEEE Intelligent Systems, 2019, 34, 35-44.	4.0	12
137	AI in Combating the COVID-19 Pandemic. IEEE Intelligent Systems, 2022, 37, 3-13.	4.0	12
138	Financial Crisis Forecasting via Coupled Market State Analysis. IEEE Intelligent Systems, 2015, 30, 18-25.	4.0	11
139	A new framework for mining frequent interaction patterns from meeting databases. Engineering Applications of Artificial Intelligence, 2015, 45, 103-118.	8.1	11
140	Coupled Clustering Ensemble by Exploring Data Interdependence. ACM Transactions on Knowledge Discovery From Data, 2018, 12, 1-38.	3.5	11
141	Enhancing Mobile App User Understanding and Marketing With Heterogeneous Crowdsourced Data: A Review. IEEE Access, 2019, 7, 68557-68571.	4.2	11
142	AI in Finance: Challenges, Techniques and Opportunities. SSRN Electronic Journal, 0, , .	0.4	11
143	Interactive Sequential Basket Recommendation by Learning Basket Couplings and Positive/Negative Feedback. ACM Transactions on Information Systems, 2021, 39, 1-26.	4.9	11
144	CGMF: Coupled Group-Based Matrix Factorization for Recommender System. Lecture Notes in Computer Science, 2013, , 189-198.	1.3	11

#	ARTICLE	IF	CITATIONS
145	Mining in-depth patterns in stock market. International Journal of Intelligent Systems Technologies and Applications, 2008, 4, 225.	0.2	10
146	Developing actionable trading agents. Knowledge and Information Systems, 2009, 18, 183-198.	3.2	10
147	On the convergence of some possibilistic clustering algorithms. Fuzzy Optimization and Decision Making, 2013, 12, 415-432.	5.5	10
148	CRNN: Integrating classification rules into neural network. , 2013, , .		10
149	Non-parametric shrinkage mean estimation for quadratic loss functions with unknown covariance matrices. Journal of Multivariate Analysis, 2014, 125, 222-232.	1.0	10
150	Agent Services-Driven Plug-and-Play in F-TRADE. Lecture Notes in Computer Science, 2004, , 917-922.	1.3	9
151	Guest Editors' Introduction: Agents and Data Mining. IEEE Intelligent Systems, 2009, 24, 14-15.	4.0	9
152	Identity tests for high dimensional data using RMT. Journal of Multivariate Analysis, 2013, 118, 128-137.	1.0	9
153	Fast Local Histogram Specification. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 1833-1843.	8.3	9
154	A hybrid coupled k-nearest neighbor algorithm on imbalance data. , 2014, , .		9
155	Neural Cross-Session Filtering: Next-Item Prediction Under Intra- and Inter-Session Context. IEEE Intelligent Systems, 2018, 33, 57-67.	4.0	9
156	Modeling and Forecasting the Popularity Evolution of Mobile Apps. , 2018, 2, 1-23.		9
157	Special Issue on AI and FinTech: The Challenge Ahead. IEEE Intelligent Systems, 2020, 35, 3-6.	4.0	9
158	Modeling and Analysis of Social Activity Process. , 2012, , 21-35.		9
159	A Coupled k-Nearest Neighbor Algorithm for Multi-label Classification. Lecture Notes in Computer Science, 2015, , 176-187.	1.3	9
160	Ubiquitous Intelligence in Agent Mining. Lecture Notes in Computer Science, 2009, , 23-35.	1.3	9
161	DDDM2007. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2007, 9, 84-86.	4.0	8
162	F-trade. , 2007, , .		8

#	ARTICLE	IF	CITATIONS
163	Developing Actionable Trading Strategies for Trading Agents. , 2007, , .		8
164	INTEGRATING AGENT, SERVICE AND ORGANIZATIONAL COMPUTING. International Journal of Software Engineering and Knowledge Engineering, 2008, 18, 573-596.	0.8	8
165	Customer Activity Sequence Classification for Debt Prevention in Social Security. Journal of Computer Science and Technology, 2009, 24, 1000-1009.	1.5	8
166	Knowledge-leverage based TSK fuzzy system with improved knowledge transfer. , 2014, , .		8
167	Fuzzy Genetic Algorithms for Pairs Mining. Lecture Notes in Computer Science, 2006, , 711-720.	1.3	8
168	CD: A Coupled Discretization Algorithm. Lecture Notes in Computer Science, 2012, , 407-418.	1.3	8
169	Multi-Space-Mapped SVMs for Multi-class Classification. , 2008, , .		7
170	SMILE: A Similarity-Based Approach for Multiple Instance Learning. , 2010, , .		7
171	Leveraging Supervised Label Dependency Propagation for Multi-label Learning. , 2013, , .		7
172	Coupled fuzzy k-nearest neighbors classification of imbalanced non-IID categorical data. , 2014, , .		7
173	Coupled Matrix Factorization Within Non-IID Context. Lecture Notes in Computer Science, 2015, , 707-719.	1.3	7
174	Coupled Item-Based Matrix Factorization. Lecture Notes in Computer Science, 2014, , 1-14.	1.3	7
175	Class Association Rule Mining with Multiple Imbalanced Attributes. Lecture Notes in Computer Science, 2007, , 827-831.	1.3	7
176	One-Class-Based Uncertain Data Stream Learning. , 2011, , .		7
177	Heterogeneous Univariate Outlier Ensembles in Multidimensional Data. ACM Transactions on Knowledge Discovery From Data, 2020, 14, 1-27.	3.5	7
178	CoupledMUTS: Coupled Multivariate Utility Time-Series Representation and Prediction. IEEE Internet of Things Journal, 2022, 9, 22972-22982.	8.7	7
179	Expression-invariant facial identification. , 2009, , .		6
180	A bi-modal face recognition framework integrating facial expression with facial appearance. Pattern Recognition Letters, 2009, 30, 1096-1109.	4.2	6

#	ARTICLE	IF	CITATIONS
181	Agent-Based Self-Adaptable Context-Aware Network Vulnerability Assessment. IEEE Transactions on Network and Service Management, 2013, 10, 255-270.	4.9	6
182	Multi-label learning based on iterative label propagation over graph. Pattern Recognition Letters, 2014, 42, 85-90.	4.2	6
183	Mining actionable combined patterns of high utility and frequency. , 2015, , .		6
184	Analysing User Reviews in Tourism with Topic Models. , 2015, , 47-58.		6
185	Copula-Based High Dimensional Cross-Market Dependence Modeling. , 2017, , .		6
186	Data Science Education. Data Analytics, 2018, , 329-348.	0.8	6
187	dhCM: Dynamic and Hierarchical Event Categorization and Discovery for Social Media Stream. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-25.	4.5	6
188	An Efficient Method for Modeling Nonoccurring Behaviors by Negative Sequential Patterns With Loose Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 1864-1878.	11.3	6
189	Actionable Knowledge Discovery and Delivery. Advanced Information and Knowledge Processing, 2015, , 287-312.	0.3	6
190	Efficient Selection of Globally Optimal Rules on Large Imbalanced Data Based on Rule Coverage Relationship Analysis. , 2013, , .		6
191	Personalized next-best action recommendation with multi-party interaction learning for automated decision-making. PLoS ONE, 2022, 17, e0263010.	2.5	6
192	Agent Services-Orinted Architectural Design of Open Complex Agent Systems. , 0, , .		5
193	Metasynthetic Computing for Solving Open Complex Problems. , 2008, , .		5
194	Debt Detection in Social Security by Adaptive Sequence Classification. Lecture Notes in Computer Science, 2009, , 192-203.	1.3	5
195	i-Analyst: An Agent-Based Distributed Data Mining Platform. , 2010, , .		5
196	Model the complex dependence structures of financial variables by using canonical vine. , 2012, , .		5
197	TOP-10 DATA MINING CASE STUDIES. International Journal of Information Technology and Decision Making, 2012, 11, 389-400.	3.9	5
198	Coupled market behavior based financial crisis detection. , 2013, , .		5

#	ARTICLE	IF	CITATIONS
199	An efficient orientation distance-based discriminative feature extraction method for multi-classification. Knowledge and Information Systems, 2014, 39, 409-433.	3.2	5
200	Negative Sequence Analysis. ACM Computing Surveys, 2020, 52, 1-39.	23.0	5
201	Modeling positive and negative feedback for improving document retrieval. Expert Systems With Applications, 2019, 120, 253-261.	7.6	5
202	On Discovering the Correlated Relationship between Static and Dynamic Data in Clinical Gait Analysis. Lecture Notes in Computer Science, 2013, , 563-578.	1.3	5
203	Modeling Asymmetry and Tail Dependence among Multiple Variables by Using Partial Regular Vine. , 2014, , .		5
204	Outlier Mining on Multiple Time Series Data in Stock Market. Lecture Notes in Computer Science, 2008, , 1010-1015.	1.3	5
205	Metadata-dependent Infinite Poisson Factorization for Efficiently Modelling Sparse and Large Matrices in Recommendation. , 2018, , .		5
206	Mining Contextual Item Similarity without Concept Hierarchy. , 2022, , .		5
207	F-TRADE 3.0: An Agent-Based Integrated Framework for Data Mining Experiments. , 2008, , .		4
208	Testing Adaptive Local Hyperplane for multi-class classification by double cross-validation. , 2010, , .		4
209	Soft subspace clustering with competitive agglomeration. , 2011, , .		4
210	A novel auto-parameters selection process for image segmentation. , 2012, , .		4
211	Semantic Approximate Keyword Query Based on Keyword and Query Coupling Relationship Analysis. , 2014, , .		4
212	Document similarity analysis via involving both explicit and implicit semantic couplings. , 2015, , .		4
213	Mining actionable combined high utility incremental and associated patterns. , 2016, , .		4
214	Top-k coupled keyword recommendation for relational keyword queries. Knowledge and Information Systems, 2017, 50, 883-916.	3.2	4
215	Learning Complex Couplings and Interactions. IEEE Intelligent Systems, 2021, 36, 3-5.	4.0	4
216	VM-NSP. ACM Transactions on Information Systems, 2021, 39, 1-27.	4.9	4

#	ARTICLE	IF	CITATIONS
217	Homophily outlier detection in non-IID categorical data. Data Mining and Knowledge Discovery, 2021, 35, 1163-1224.	3.7	4
218	Activity Mining: Challenges and Prospects. Lecture Notes in Computer Science, 2006, , 582-593.	1.3	4
219	Data Mining Applications in Social Security. , 2009, , 81-96.		4
220	Ontology Transformation in Multiple Domains. Lecture Notes in Computer Science, 2004, , 985-990.	1.3	4
221	Mining High Impact Exceptional Behavior Patterns. , 2007, , 56-63.		4
222	Stock Data Mining through Fuzzy Genetic Algorithms. , 0, , .		4
223	Mix2Vec: Unsupervised Mixed Data Representation. , 2020, , .		4
224	AI Science and Engineering: A New Field. IEEE Intelligent Systems, 2022, 37, 3-13.	4.0	4
225	Agent-based approach for analysis and design of open giant intelligent systems. , 0, , .		3
226	Multi-strategy Integration for Actionable Trading Agents. , 2007, , .		3
227	Spatial-temporal attention analysis for home video. , 2008, , .		3
228	Vote-Based LELC for Positive and Unlabeled Textual Data Streams. , 2010, , .		3
229	Orientation distance-based discriminative feature extraction for multi-class classification. , 2010, , .		3
230	Conservation of water molecules in protein binding interfaces. International Journal of Bioinformatics Research and Applications, 2012, 8, 228.	0.2	3
231	Behavior Informatics to Discover Behavior Insight for Active and Tailored Client Management. , 2017, , .		3
232	Generalized Hidden-Mapping Minimax Probability Machine for the training and reliability learning of several classical intelligent models. Information Sciences, 2018, 436-437, 302-319.	6.9	3
233	Cognitive Aspects-Based Short Text Representation with Named Entity, Concept and Knowledge. Applied Sciences (Switzerland), 2020, 10, 4893.	2.5	3
234	Answer Keyword Generation for Community Question Answering by Multiaspect Gamma-Poisson Matrix Completion. IEEE Intelligent Systems, 2021, 36, 35-47.	4.0	3

#	ARTICLE	IF	CITATIONS
235	Learning deep relevance couplings for ad-hoc document retrieval. Expert Systems With Applications, 2021, 183, 115335.	7.6	3
236	Intelligence Metasynthesis in Building Business Intelligence Systems. , 2006, , 454-470.		3
237	Domain-Driven Local Exceptional Pattern Mining for Detecting Stock Price Manipulation. Lecture Notes in Computer Science, 2008, , 849-858.	1.3	3
238	Combining Support Vector Machines and the t-statistic for Gene Selection in DNA Microarray Data Analysis. Lecture Notes in Computer Science, 2010, , 55-62.	1.3	3
239	Integrating Workflow into Agent-Based Distributed Data Mining Systems. Lecture Notes in Computer Science, 2010, , 4-15.	1.3	3
240	Domain Driven Data Mining. , 2008, , 196-223.		3
241	BiCMTS: Bidirectional Coupled Multivariate Learning of Irregular Time Series with Missing Values. , 2021, , .		3
242	Multi-agent system for customer relationship management with SVMs tool. International Journal of Intelligent Information and Database Systems, 2010, 4, 121.	0.3	2
243	Classification by ALH-fast algorithm. Tsinghua Science and Technology, 2010, 15, 275-280.	6.1	2
244	K-farthest-neighbors-based concept boundary determination for support vector data description. , 2010, , .		2
245	An approach of hierarchical concept clustering on Medical Short Text corpus. , 2013, , .		2
246	TCTM: an evaluation framework for architecture design on wireless sensor networks. International Journal of Sensor Networks, 2013, 14, 168.	0.4	2
247	OSOAD Methodology. Advanced Information and Knowledge Processing, 2015, , 111-129.	0.3	2
248	Financial crisis and global market couplings. , 2015, , .		2
249	Mining preferred navigation patterns by consolidating both selection and time preferences. World Wide Web, 2016, 19, 979-1007.	4.0	2
250	The Data Science Era. Data Analytics, 2018, , 3-28.	0.8	2
251	Evolutionarily Learning Multi-Aspect Interactions and Influences from Network Structure and Node Content. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 598-605.	4.9	2
252	Health and medical behavior informatics. , 2020, , 735-761.		2

#	ARTICLE	IF	CITATIONS
253	Maximum Entropy Reinforcement Learning with Evolution Strategies. , 2020, , .		2
254	Data science and AI in FinTech: An overview. SSRN Electronic Journal, 0, , .	0.4	2
255	Anomaly and Novelty Detection, Explanation, and Accommodation (ANDEA). , 2021, , .		2
256	Fuzzy Genetic Algorithms for Pairs Mining. , 2006, , 711-720.		2
257	Complex Systems. Advanced Information and Knowledge Processing, 2015, , 1-36.	0.3	2
258	Vine Copula-Based Asymmetry and Tail Dependence Modeling. Lecture Notes in Computer Science, 2018, , 285-297.	1.3	2
259	Agent Collaboration for Multiple Trading Strategy Integration. , 2008, , 361-370.		2
260	Developing Actionable Trading Strategies. Studies in Computational Intelligence, 2009, , 193-215.	0.9	2
261	Obtaining an Optimal MAS Configuration for Agent-Enhanced Mining Using Constraint Optimization. Lecture Notes in Computer Science, 2012, , 46-57.	1.3	2
262	Optimal Allocation of High Dimensional Assets through Canonical Vines. Lecture Notes in Computer Science, 2013, , 366-377.	1.3	2
263	Coupled K-Nearest Centroid Classification for Non-iid Data. Lecture Notes in Computer Science, 2014, , 89-100.	1.3	2
264	Rare Class Association Rule Mining with Multiple Imbalanced Attributes. , 2010, , 66-75.		2
265	Building Agent Service Oriented Multi-Agent Systems. Lecture Notes in Computer Science, 2007, , 11-20.	1.3	2
266	Modeling time evolving COVID-19 uncertainties with density dependent asymptomatic infections and social reinforcement. Scientific Reports, 2022, 12, 5891.	3.3	2
267	Detecting Turning Points of Trading Price and Return Volatility for Market Surveillance Agents. , 2007, , .		1
268	Mining Exceptional Activity Patterns in Microstructure Data. , 2008, , .		1
269	An integrated investment decision-support framework analysing and synthesising multidimensional market dynamics. International Journal of Intelligent Systems Technologies and Applications, 2008, 4, 239.	0.2	1
270	Multiobjective evolutionary algorithm-based soft subspace clustering. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
271	Special issue on behavior computing. Knowledge and Information Systems, 2013, 37, 245-249.	3.2	1
272	The Foundation of Fuzzy Rule Interchange in the Semantic Web. , 2013, , .		1
273	Conference Report on 2015 IEEE International Conference on Data Science and Advanced Analytics (DSAA'2015) [Conference Reports]. IEEE Computational Intelligence Magazine, 2016, 11, 13-14.	3.2	1
274	Improving the Performance of Collaborative Filtering with Category-Specific Neighborhood. Lecture Notes in Computer Science, 2016, , 201-210.	1.3	1
275	What Is Data Science. Data Analytics, 2018, , 29-58.	0.8	1
276	Data Science Challenges. Data Analytics, 2018, , 93-128.	0.8	1
277	Evolving Coauthorship Modeling and Prediction via Time-Aware Paired Choice Analysis. IEEE Access, 2019, 7, 98639-98651.	4.2	1
278	Coupling Multiple Views of Relations for Recommendation. Lecture Notes in Computer Science, 2015, , 732-743.	1.3	1
279	Time-Sensitive Feature Mining for Temporal Sequence Classification. Lecture Notes in Computer Science, 2010, , 315-326.	1.3	1
280	Ontological Engineering in Data Warehousing. Lecture Notes in Computer Science, 2006, , 923-929.	1.3	1
281	SEGMENTATION ALGORITHMS IN HIGH FREQUENCY TIME-SERIES DATA. , 2007, , 445-451.		1
282	Visual Modeling. Advanced Information and Knowledge Processing, 2015, , 131-168.	0.3	1
283	High-dimensional Cross-market Dependence Modeling and Portfolio Forecasting by Copula Variational LSTM. SSRN Electronic Journal, 0, , .	0.4	1
284	DeepExpress: Heterogeneous and Coupled Sequence Modeling for Express Delivery Prediction. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-22.	4.5	1
285	Non-IID Federated Learning. IEEE Intelligent Systems, 2022, 37, 14-15.	4.0	1
286	Integrative Early Requirements Analysis for Agent-Based Systems. , 0, , .		0
287	Agent services-based infrastructure for online assessment of trading strategies. , 0, , .		0
288	Exception Mining on Multiple Time Series in Stock Market. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
289	A Chinese question classification using one-vs-one method as a learning tool. International Journal of Intelligent Information and Database Systems, 2008, 2, 446.	0.3	0
290	A Cost-Effective LSH Filter for Fast Pairwise Mining. , 2009, , .		0
291	Editorial to the Proceedings of mobile technologies in enterprise computing systems workshop (MTECS 2009). , 2009, , .		0
292	A New Multimodal Biometric for Personal Identification. , 0, , .		0
293	Less Effort, More Outcomes: Optimising Debt Recovery with Decision Trees. , 2010, , .		0
294	Maximum margin clustering on evolutionary data. , 2012, , .		0
295	Graph-based coupled behavior analysis: A case study on detecting collaborative manipulations in stock markets. , 2012, , .		0
296	Extracting discriminative features for identifying abnormal sequences in one-class mode. , 2013, , .		0
297	Bayesian Heteroskedastic Choice Modeling on Non-identically Distributed Linkages. , 2014, , .		0
298	Welcome from DSAA 2014 chairs. , 2014, , .		0
299	Computing Paradigms. Advanced Information and Knowledge Processing, 2015, , 57-80.	0.3	0
300	Agent Service-Oriented Architectural Design. Advanced Information and Knowledge Processing, 2015, , 195-219.	0.3	0
301	Ontological Engineering. Advanced Information and Knowledge Processing, 2015, , 243-266.	0.3	0
302	A convergence theorem for graph shift-type algorithms. Pattern Recognition, 2015, 48, 2751-2760.	8.1	0
303	Introduction to the special issue on Data Science in Asia (with PAKDD™2017). International Journal of Data Science and Analytics, 2018, 6, 271-272.	4.1	0
304	Coupled Collective Matrix Factorization. , 2018, , .		0
305	Deep-PUMR: Deep Positive and Unlabeled Learning with Manifold Regularization. Lecture Notes in Computer Science, 2018, , 12-20.	1.3	0
306	Data Profession. Data Analytics, 2018, , 293-327.	0.8	0

#	ARTICLE	IF	CITATIONS
307	Data Science Discipline. Data Analytics, 2018, , 129-160.	0.8	0
308	Data Science Techniques. Data Analytics, 2018, , 203-234.	0.8	0
309	Data Science Applications. Data Analytics, 2018, , 263-292.	0.8	0
310	Recurrent Coupled Topic Modeling over Sequential Documents. ACM Transactions on Knowledge Discovery From Data, 2021, 16, 1-32.	3.5	0
311	Actionable Knowledge Discovery. , 2009, , 8-13.		0
312	Data Clustering. , 2009, , 562-572.		0
313	Data Mining in Financial Markets. Lecture Notes in Computer Science, 2009, , 4-4.	1.3	0
314	Trading Strategy Based Portfolio Selection for Actionable Trading Agents. Lecture Notes in Computer Science, 2013, , 191-202.	1.3	0
315	Robust Textual Data Streams Mining Based on Continuous Transfer Learning. , 2013, , .		0
316	Learning Heterogeneous Coupling Relationships Between Non-IID Terms. Lecture Notes in Computer Science, 2014, , 79-91.	1.3	0
317	Learning Complex Behavioral and Social Data. Advanced Information and Knowledge Processing, 2015, , 313-336.	0.3	0
318	System Methodologies. Advanced Information and Knowledge Processing, 2015, , 51-56.	0.3	0
319	OSOAD Case Study. Advanced Information and Knowledge Processing, 2015, , 267-286.	0.3	0
320	A Coupled Similarity Kernel for Pairwise Support Vector Machine. Lecture Notes in Computer Science, 2015, , 114-123.	1.3	0
321	Metasynthesis. Advanced Information and Knowledge Processing, 2015, , 81-110.	0.3	0
322	Multi-agent System for Custom Relationship Management with SVMs Tool. , 2008, , 333-340.		0
323	Table2Vec-automated universal representation learning of enterprise data DNA for benchmarkable and explainable enterprise data science. Scientific Reports, 2021, 11, 23957.	3.3	0
324	AI Science and Engineering. IEEE Intelligent Systems, 2022, 37, 14-15.	4.0	0

#	ARTICLE	IF	CITATIONS
325	Multi-strategy Integration for Actionable Trading Agents. , 2007, , .		0
326	Detecting Turning Points of Trading Price and Return Volatility for Market Surveillance Agents. , 2007, , .		0