

Vincent S Tseng

List of Publications by Year in descending order

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163
papers

5,542
citations

101384

36
h-index

106150

65
g-index

163
all docs

163
docs citations

163
times ranked

2931
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Algorithms for Mining High Utility Itemsets from Transactional Databases. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 1772-1786.	4.0	446
2	UP-Growth. , 2010, , .		322
3	Accurate Classification of Diminutive Colorectal Polyps Using Computer-Aided Analysis. Gastroenterology, 2018, 154, 568-575.	0.6	317
4	FHM: Faster High-Utility Itemset Mining Using Estimated Utility Co-occurrence Pruning. Lecture Notes in Computer Science, 2014, , 83-92.	1.0	263
5	Efficient Algorithms for Mining Top-K High Utility Itemsets. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 54-67.	4.0	200
6	A Survey of Utility-Oriented Pattern Mining. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 1306-1327.	4.0	185
7	EFIM: a fast and memory efficient algorithm for high-utility itemset mining. Knowledge and Information Systems, 2017, 51, 595-625.	2.1	179
8	An efficient projection-based indexing approach for mining high utility itemsets. Knowledge and Information Systems, 2014, 38, 85-107.	2.1	171
9	Efficient Relevance Feedback for Content-Based Image Retrieval by Mining User Navigation Patterns. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 360-372.	4.0	139
10	Efficiently Mining Gene Expression Data via a Novel Parameterless Clustering Method. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2005, 2, 355-365.	1.9	116
11	Efficient algorithms for mining high-utility itemsets in uncertain databases. Knowledge-Based Systems, 2016, 96, 171-187.	4.0	103
12	EFIM: A Highly Efficient Algorithm for High-Utility Itemset Mining. Lecture Notes in Computer Science, 2015, , 530-546.	1.0	101
13	Applying the maximum utility measure in high utility sequential pattern mining. Expert Systems With Applications, 2014, 41, 5071-5081.	4.4	100
14	Efficient Algorithms for Mining the Concise and Lossless Representation of High Utility Itemsets. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 726-739.	4.0	95
15	Mining top-K high utility itemsets. , 2012, , .		91
16	Mining Cluster-Based Temporal Mobile Sequential Patterns in Location-Based Service Environments. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 914-927.	4.0	84
17	Discovery of high utility itemsets from on-shelf time periods of products. Expert Systems With Applications, 2011, 38, 5851-5857.	4.4	83
18	Personalized trip recommendation with multiple constraints by mining user check-in behaviors. , 2012, , .		81

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19	An efficient algorithm for mining temporal high utility itemsets from data streams. <i>Journal of Systems and Software</i> , 2008, 81, 1105-1117.	3.3	80
20	Efficient algorithms for mining maximal high utility itemsets from data streams with different models. <i>Expert Systems With Applications</i> , 2012, 39, 12947-12960.	4.4	73
21	Mining fastest path from trajectories with multiple destinations in road networks. <i>Knowledge and Information Systems</i> , 2011, 29, 25-53.	2.1	71
22	Mining high-utility itemsets in dynamic profit databases. <i>Knowledge-Based Systems</i> , 2019, 175, 130-144.	4.0	69
23	Mining high utility episodes in complex event sequences. , 2013, , .		68
24	Efficient algorithms for mining up-to-date high-utility patterns. <i>Advanced Engineering Informatics</i> , 2015, 29, 648-661.	4.0	64
25	Mining interesting user behavior patterns in mobile commerce environments. <i>Applied Intelligence</i> , 2013, 38, 418-435.	3.3	62
26	Mining High Utility Itemsets in Big Data. <i>Lecture Notes in Computer Science</i> , 2015, , 649-661.	1.0	62
27	Mining Partially-Ordered Sequential Rules Common to Multiple Sequences. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2015, 27, 2203-2216.	4.0	60
28	Development of a lightweight deep learning model for cloud applications and remote diagnosis of skin cancers. <i>Journal of Dermatology</i> , 2021, 48, 310-316.	0.6	59
29	EFFICIENTLY MINING HIGH AVERAGE-UTILITY ITEMSETS WITH AN IMPROVED UPPER-BOUND STRATEGY. <i>International Journal of Information Technology and Decision Making</i> , 2012, 11, 1009-1030.	2.3	57
30	Trip-Mine: An Efficient Trip Planning Approach with Travel Time Constraints. , 2011, , .		52
31	Global Oct4 target gene analysis reveals novel downstream <i>PTEN</i> and <i>TNC</i> genes required for drug-resistance and metastasis in lung cancer. <i>Nucleic Acids Research</i> , 2015, 43, 1593-1608.	6.5	51
32	Mining High Utility Mobile Sequential Patterns in Mobile Commerce Environments. <i>Lecture Notes in Computer Science</i> , 2011, , 224-238.	1.0	51
33	Online mining of temporal maximal utility itemsets from data streams. , 2010, , .		50
34	Weighted frequent itemset mining over uncertain databases. <i>Applied Intelligence</i> , 2016, 44, 232-250.	3.3	50
35	Effective temporal data classification by integrating sequential pattern mining and probabilistic induction. <i>Expert Systems With Applications</i> , 2009, 36, 9524-9532.	4.4	48
36	Efficient algorithms for discovering high utility user behavior patterns in mobile commerce environments. <i>Knowledge and Information Systems</i> , 2013, 37, 363-387.	2.1	48

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37	A deep learning approach in diagnosing fungal keratitis based on corneal photographs. Scientific Reports, 2020, 10, 14424.	1.6	44
38	Cluster-Based Evaluation in Fuzzy-Genetic Data Mining. IEEE Transactions on Fuzzy Systems, 2008, 16, 249-262.	6.5	43
39	Fast algorithms for mining high-utility itemsets with various discount strategies. Advanced Engineering Informatics, 2016, 30, 109-126.	4.0	43
40	Efficiently mining uncertain high-utility itemsets. Soft Computing, 2017, 21, 2801-2820.	2.1	43
41	Efficient Mining of High-Utility Sequential Rules. Lecture Notes in Computer Science, 2015, , 157-171.	1.0	38
42	EFIM-Closed: Fast and Memory Efficient Discovery of Closed High-Utility Itemsets. Lecture Notes in Computer Science, 2016, , 199-213.	1.0	37
43	Spatio-attention embedded recurrent neural network for air quality prediction. Knowledge-Based Systems, 2021, 233, 107416.	4.0	37
44	Mining closed+ high utility itemsets without candidate generation. , 2015, , .		36
45	A Novel Similarity-Based Fuzzy Clustering Algorithm by Integrating PCM and Mountain Method. IEEE Transactions on Fuzzy Systems, 2007, 15, 1188-1196.	6.5	34
46	Convolutional neural network based automatic screening tool for cardiovascular diseases using different intervals of ECG signals. Computer Methods and Programs in Biomedicine, 2021, 203, 106035.	2.6	33
47	Mining Cluster-Based Mobile Sequential Patterns in Location-Based Service Environments. , 2009, , .		32
48	Reliable Early Classification on Multivariate Time Series with Numerical and Categorical Attributes. Lecture Notes in Computer Science, 2015, , 199-211.	1.0	30
49	Efficient Mining of a Concise and Lossless Representation of High Utility Itemsets. , 2011, , .		29
50	Hepatocellular carcinoma-associated single-nucleotide variants and deletions identified by the use of genome-wide high-throughput analysis of hepatitis B virus. Journal of Pathology, 2017, 243, 176-192.	2.1	29
51	Efficient methods for mining weighted clickstream patterns. Expert Systems With Applications, 2020, 142, 112993.	4.4	29
52	Mining differential top-k co-expression patterns from time course comparative gene expression datasets. BMC Bioinformatics, 2013, 14, 230.	1.2	27
53	Discovering utility-based episode rules in complex event sequences. Expert Systems With Applications, 2015, 42, 5303-5314.	4.4	26
54	Computational Intelligence Techniques for Combating COVID-19: A Survey. IEEE Computational Intelligence Magazine, 2020, 15, 10-22.	3.4	26

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55	Application of deep learning algorithm to detect and visualize vertebral fractures on plain frontal radiographs. PLoS ONE, 2021, 16, e0245992.	1.1	24
56	An Efficient Framework for Multirequest Route Planning in Urban Environments. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 869-879.	4.7	23
57	Multivariate Time Series Early Classification with Interpretability Using Deep Learning and Attention Mechanism. Lecture Notes in Computer Science, 2019, , 541-553.	1.0	22
58	Mining Sequential Risk Patterns from Large-Scale Clinical Databases for Early Assessment of Chronic Diseases: A Case Study on Chronic Obstructive Pulmonary Disease. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1-1.	3.9	21
59	A Deep Learning-Enabled Electrocardiogram Model for the Identification of a Rare Inherited Arrhythmia: Brugada Syndrome. Canadian Journal of Cardiology, 2022, 38, 152-159.	0.8	21
60	Mining temporal mobile sequential patterns in location-based service environments. , 2007, , .		20
61	Mining Disease Risk Patterns from Nationwide Clinical Databases for the Assessment of Early Rheumatoid Arthritis Risk. PLoS ONE, 2015, 10, e0122508.	1.1	20
62	An intelligent recommender system based on predictive analysis in telehealthcare environment. Web Intelligence, 2016, 14, 325-336.	0.1	20
63	Integrating tourist packages and tourist attractions for personalized trip planning based on travel constraints. Geoinformatica, 2016, 20, 741-763.	2.0	20
64	Multivariate Time Series Early Classification Using Multi-Domain Deep Neural Network. , 2018, , .		19
65	eDRAM: Effective early disease risk assessment with matrix factorization on a large-scale medical database: A case study on rheumatoid arthritis. PLoS ONE, 2018, 13, e0207579.	1.1	18
66	Large-scale Classification of 12-lead ECG with Deep Learning. , 2019, , .		18
67	Hierarchy-aware contrastive learning with late fusion for skin lesion classification. Computer Methods and Programs in Biomedicine, 2022, 216, 106666.	2.6	18
68	Predicting Ventricular Fibrillation Through Deep Learning. IEEE Access, 2020, 8, 221886-221896.	2.6	17
69	Comparisons of deep learning algorithms for diagnosing bacterial keratitis via external eye photographs. Scientific Reports, 2021, 11, 24227.	1.6	16
70	Network-based analysis identifies epigenetic biomarkers of esophageal squamous cell carcinoma progression. Bioinformatics, 2014, 30, 3054-3061.	1.8	15
71	A novel methodology for stock investment using high utility episode mining and genetic algorithm. Applied Soft Computing Journal, 2017, 59, 303-315.	4.1	15
72	Segmentation of Time Series by the Clustering and Genetic Algorithms. , 2006, , .		13

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73	Prediction of user navigation patterns by mining the temporal web usage evolution. <i>Soft Computing</i> , 2007, 12, 157-163.	2.1	13
74	Prenatal exposure to air pollutants and childhood atopic dermatitis and allergic rhinitis adopting machine learning approaches: 14-year follow-up birth cohort study. <i>Science of the Total Environment</i> , 2021, 777, 145982.	3.9	13
75	Effect of the Nintendo Ring Fit Adventure Exergame on Running Completion Time and Psychological Factors Among University Students Engaging in Distance Learning During the COVID-19 Pandemic: Randomized Controlled Trial. <i>JMIR Serious Games</i> , 2022, 10, e35040.	1.7	13
76	Design of a Real-Time and Continua-Based Framework for Care Guideline Recommendations. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 4262-4279.	1.2	12
77	Aligning to the sample-specific reference sequence to optimize the accuracy of next-generation sequencing analysis for hepatitis B virus. <i>Hepatology International</i> , 2016, 10, 147-157.	1.9	12
78	Mining High-Utility Itemsets with Both Positive and Negative Unit Profits from Uncertain Databases. <i>Lecture Notes in Computer Science</i> , 2017, , 434-446.	1.0	12
79	Leveraging Multimodal Deep Learning Architecture with Retina Lesion Information to Detect Diabetic Retinopathy. <i>Translational Vision Science and Technology</i> , 2020, 9, 41.	1.1	12
80	Hybrid data mining approaches for prevention of drug dispensing errors. <i>Journal of Intelligent Information Systems</i> , 2011, 36, 305-327.	2.8	11
81	Preference-oriented mining techniques for location-based store search. <i>Knowledge and Information Systems</i> , 2013, 34, 147-169.	2.1	11
82	Trip Recommendation with Multiple User Constraints by Integrating Point-of-Interests and Travel Packages. , 2014, , .		11
83	Effective social content-based collaborative filtering for music recommendation. <i>Intelligent Data Analysis</i> , 2017, 21, S195-S216.	0.4	11
84	A Big Data Analytical Framework for Sports Behavior Mining and Personalized Health Services. , 2017, , .		11
85	An Integrated Data Mining System for Patient Monitoring with Applications on Asthma Care. , 2008, , .		10
86	Efficient mining of multilevel gene association rules from microarray and gene ontology. <i>Information Systems Frontiers</i> , 2009, 11, 433-447.	4.1	10
87	Efficiently mining high utility sequential patterns in static and streaming data. <i>Intelligent Data Analysis</i> , 2017, 21, S103-S135.	0.4	10
88	Mining frequent weighted utility itemsets in hierarchical quantitative databases. <i>Knowledge-Based Systems</i> , 2022, 237, 107709.	4.0	10
89	A Genetic-Fuzzy Mining Approach for Items with Multiple Minimum Supports. <i>IEEE International Conference on Fuzzy Systems</i> , 2007, , .	0.0	9
90	Efficient vertical mining of high utility quantitative itemsets. , 2014, , .		9

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91	Development of a Vital Sign Data Mining System for Chronic Patient Monitoring. , 2008, , .		8
92	A SPEA2-based genetic-fuzzy mining algorithm. , 2010, , .		8
93	Gene Relation Discovery by Mining Similar Subsequences in Time-Series Microarray Data. , 2007, , .		7
94	A Comparison of Different Fitness Functions for Extracting Membership Functions Used in Fuzzy Data Mining. , 2007, , .		7
95	Energy Efficient Object Tracking in Sensor Networks by Mining Temporal Moving Patterns. , 2008, , .		7
96	Intelligent Multimedia Recommender by Integrating Annotation and Association Mining. , 2008, , .		7
97	A novel method for mining temporally dependent association rules in three-dimensional microarray datasets. , 2010, , .		7
98	Microarray data classification by multi-information based gene scoring integrated with Gene Ontology. International Journal of Data Mining and Bioinformatics, 2011, 5, 402.	0.1	7
99	A Mobile Framework for Personalized Diabetes Telecare. , 2012, , .		7
100	Semantic content-based music retrieval using audio and fuzzy-music-sense features. , 2014, , .		7
101	A Novel IGLC2 Gene Linked With Prognosis of Triple-Negative Breast Cancer. Frontiers in Oncology, 2021, 11, 759952.	1.3	7
102	Disease Risk Prediction by Mining Personalized Health Trend Patterns: A Case Study on Diabetes. , 2012, , .		6
103	Preference-Aware Community Detection for Item Recommendation. , 2013, , .		6
104	Location semantics prediction for living analytics by mining smartphone data. , 2014, , .		6
105	Mining high-utility itemsets with various discount strategies. , 2015, , .		6
106	An Efficient Algorithm for Mining High Utility Quantitative Itemsets. , 2019, , .		6
107	Effective Ranking and Recommendation on Web Page Retrieval by Integrating Association Mining and PageRank. , 2008, , .		5
108	Mining the Shortest Path within a Travel Time Constraint in Road Network Environments. , 2008, , .		5

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109	Speeding up genetic-fuzzy mining by fuzzy clustering. , 2009, , .		5
110	UP-Miner: A Utility Pattern Mining Toolbox. , 2015, , .		5
111	Snippet Policy Network for Multi-class Varied-length ECG Early Classification. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	5
112	A Cluster-Based Fuzzy-Genetic Mining Approach for Association Rules and Membership Functions. , 2006, , .		4
113	Mining Region-Based Movement Patterns for Energy-Efficient Object Tracking in Sensor Networks. , 2008, , .		4
114	Mining High Transaction-Weighted Utility Itemsets. , 2010, , .		4
115	Discovering Clinical Biomarkers of Chronic Hepatitis B by Mining Mutation Hotspots. , 2011, , .		4
116	A hybrid scheme for energy-efficient object tracking in sensor networks. Knowledge and Information Systems, 2013, 36, 359-384.	2.1	4
117	Efficient Approaches for Multi-requests Route Planning in Urban Areas. , 2013, , .		4
118	PFraudDetector: A Parallelized Graph Mining Approach for Efficient Fraudulent Phone Call Detection. , 2016, , .		4
119	DeF-GPU: Efficient and effective deletions finding in hepatitis B viral genomic DNA using a GPU architecture. Methods, 2016, 111, 56-63.	1.9	4
120	Detecting exact breakpoints of deletions with diversity in hepatitis B viral genomic DNA from next-generation sequencing data. Methods, 2017, 129, 24-32.	1.9	4
121	Discovering negative comments by sentiment analysis on web forum. World Wide Web, 2019, 22, 1297-1311.	2.7	4
122	A Personalized Music Recommender System Using User Contents, Music Contents and Preference Ratings. Vietnam Journal of Computer Science, 2020, 07, 77-92.	1.0	4
123	Deep Learning for Automated Diabetic Retinopathy Screening Fused With Heterogeneous Data From EHRs Can Lead to Earlier Referral Decisions. Translational Vision Science and Technology, 2021, 10, 18.	1.1	4
124	Intelligent Concept-Oriented and Content-Based Image Retrieval by using data mining and query decomposition techniques. , 2008, , .		3
125	A multi-objective genetic-fuzzy mining algorithm. , 2008, , .		3
126	Efficient Incremental Mining of Qualified Web Traversal Patterns without Scanning Original Databases. , 2009, , .		3

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127	A Summary of Genetic-Fuzzy Data Mining Techniques. , 2010, , .		3
128	Effective image semantic annotation by discovering visual-concept associations from image-concept distribution model. , 2010, , .		3
129	An improved approach for sequential utility pattern mining. , 2012, , .		3
130	Principle-Based Approach for the De-Identification of Code-Mixed Electronic Health Records. IEEE Access, 2022, 10, 22875-22885.	2.6	3
131	Snippet Policy Network V2: Knee-Guided Neuroevolution for Multi-Lead ECG Early Classification. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 2167-2181.	7.2	3
132	Ontology-Based Semantic Web Image Retrieval by Utilizing Textual and Visual Annotations. , 2009, , .		2
133	A PIP-based evolutionary approach for time series segmentation and pattern discovery. , 2010, , .		2
134	Projection-Based Utility Mining with an Efficient Indexing Mechanism. , 2010, , .		2
135	Semantic Video Retrieval by Integrating Concept- and Content-Aware Mining. , 2011, , .		2
136	Simulation framework for travel trajectory generation and mobile transaction modeling. , 2012, , .		2
137	Efficient pattern-based conceptual image retrieval. , 2012, , .		2
138	Mining disease sequential risk patterns from nationwide clinical databases for early assessment of chronic obstructive pulmonary disease. , 2016, , .		2
139	Efficient big image data retrieval using clustering index and parallel computation. , 2017, , .		2
140	PURL: Periodic User Representation Learning from Temporal Event Records for Personalized Health Management. , 2020, , .		2
141	Guest Editorial: Artificial Intelligence for Securing Industrial-Based Cyber-Physical Systems. IEEE Transactions on Industrial Informatics, 2021, 17, 5738-5741.	7.2	2
142	Effective Video Annotation by Mining Visual Features and Speech Features. , 2007, , .		1
143	A modified approach to speed up genetic-fuzzy data mining with divide-and-conquer strategy. , 2007, , .		1
144	A divide-and-conquer genetic-fuzzy mining approach for items with multiple minimum supports. , 2008, , .		1

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145	A Novel Recommendation Method Based on Rough Set and Integrated Feature Mining. , 2008, , .		1
146	A Framework for Personalized Health Trend Analysis. , 2009, , .		1
147	A framework for cloud-based POI search and trip planning systems. , 2013, , .		1
148	Hewin: High expected weighted itemset mining in uncertain databases. , 2015, , .		1
149	Efficient Multi-Destinations Route Planning with Deadlines and Cost Constraints. , 2017, , .		1
150	Efficient Mining of Uncertain Data for High-Utility Itemsets. Lecture Notes in Computer Science, 2016, , 17-30.	1.0	1
151	Towards Parameter-less and Similarity-based Fuzzy Clustering based on PCM Method. , 2006, , .		0
152	An energy saving strategy for object tracking in sensor networks by mining seamless temporal moving patterns. , 2008, , .		0
153	Data mining for biomarker discovery: The time is ripe. , 2009, , .		0
154	Agent-based optimization of biological response networks. , 2010, , .		0
155	Genetic-Fuzzy Data Mining Techniques. , 2010, , .		0
156	A novel peak alignment method for LC-MS data analysis using cluster-based techniques. , 2010, , .		0
157	PTCR-Miner: Progressive Temporal Class Rule Mining for Multivariate Temporal Data Classification. , 2010, , .		0
158	Updating high average-utility itemsets in dynamic databases. , 2011, , .		0
159	CTCR-Span: Efficient mining of cross-timepoint gene regulation sequential patterns from microarray datasets. , 2012, , .		0
160	A Novel Methodology for Stock Investment Using Episode Mining and Technical Indicators. , 2012, , .		0
161	Effective Music Retrieval by Sequential Pattern-Based Alignment. , 2012, , .		0
162	Effective Risk Assessment of Type 2 Diabetes Using Diagnostic Information Retrieval. , 2018, , .		0

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163	MINING MULTILEVEL ASSOCIATION RULES FROM GENE ONTOLOGY AND MICROARRAY DATA. Science, Engineering, and Biology Informatics, 2006, , 321-337.	0.1	0