Vincent S Tseng

List of Publications by Year
in descending order

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	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
2	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
3	Mining frequent weighted utility itemsets in hierarchical quantitative databases. Knowledge-Based Systems, 2022, 237, 107709.	4.0	10
4	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. JMIR Serious Games, 2022, 10, e35040.	1.7	13
5	Principle-Based Approach for the De-Identification of Code-Mixed Electronic Health Records. IEEE Access, 2022, 10, 22875-22885.	2.6	3
6	Hierarchy-aware contrastive learning with late fusion for skin lesion classification. Computer Methods and Programs in Biomedicine, 2022, 216, 106666.	2.6	18
7	Snippet Policy Network for Multi-class Varied-length ECG Early Classification. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	5
8	Development of a light‐weight deep learning model for cloud applications and remote diagnosis of skin cancers. Journal of Dermatology, 2021, 48, 310-316.	0.6	59
9	A Survey of Utility-Oriented Pattern Mining. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 1306-1327.	4.0	185
10	Application of deep learning algorithm to detect and visualize vertebral fractures on plain frontal radiographs. PLoS ONE, 2021, 16, e0245992.	1.1	24
11	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
12	Prenatal exposure to air pollutants and childhood atopic dermatitis and allergic rhinitis adopting machine learning approaches: 14-year follow-up birth cohort study. Science of the Total Environment, 2021, 777, 145982.	3.9	13
13	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
14	Guest Editorial: Artificial Intelligence for Securing Industrial-Based Cyber-Physical Systems. IEEE Transactions on Industrial Informatics, 2021, 17, 5738-5741.	7.2	2
15	Spatio-attention embedded recurrent neural network for air quality prediction. Knowledge-Based Systems, 2021, 233, 107416.	4.0	37
16	A Novel IGLC2 Gene Linked With Prognosis of Triple-Negative Breast Cancer. Frontiers in Oncology, 2021, 11, 759952.	1.3	7
17	Comparisons of deep learning algorithms for diagnosing bacterial keratitis via external eye photographs. Scientific Reports, 2021, 11, 24227.	1.6	16
18	Efficient methods for mining weighted clickstream patterns. Expert Systems With Applications, 2020, 142, 112993.	4.4	29

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19	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
20	Leveraging Multimodal Deep Learning Architecture with Retina Lesion Information to Detect Diabetic Retinopathy. Translational Vision Science and Technology, 2020, 9, 41.	1.1	12
21	Computational Intelligence Techniques for Combating COVID-19: A Survey. IEEE Computational Intelligence Magazine, 2020, 15, 10-22.	3.4	26
22	A deep learning approach in diagnosing fungal keratitis based on corneal photographs. Scientific Reports, 2020, 10, 14424.	1.6	44
23	Predicting Ventricular Fibrillation Through Deep Learning. IEEE Access, 2020, 8, 221886-221896.	2.6	17
24	PURL: Periodic User Representation Learning from Temporal Event Records for Personalized Health Management. , 2020, , .		2
25	Discovering negative comments by sentiment analysis on web forum. World Wide Web, 2019, 22, 1297-1311.	2.7	4
26	Mining high-utility itemsets in dynamic profit databases. Knowledge-Based Systems, 2019, 175, 130-144.	4.0	69
27	Multivariate Time Series Early Classification with Interpretability Using Deep Learning and Attention Mechanism. Lecture Notes in Computer Science, 2019, , 541-553.	1.0	22
28	An Efficient Algorithm for Mining High Utility Quantitative Itemsets. , 2019, , .		6
29	Large-scale Classification of 12-lead ECG with Deep Learning. , 2019, , .		18
30	Accurate Classification of Diminutive Colorectal Polyps Using Computer-Aided Analysis. Gastroenterology, 2018, 154, 568-575.	0.6	317
31	Multivariate Time Series Early Classification Using Multi-Domain Deep Neural Network. , 2018, , .		19
32	Effective Risk Assessment of Type 2 Diabetes Using Diagnostic Information Retrieval. , 2018, , .		0
33	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
34	Efficiently mining uncertain high-utility itemsets. Soft Computing, 2017, 21, 2801-2820.	2.1	43
35	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
36	Effective social content-based collaborative filtering for music recommendation. Intelligent Data Analysis, 2017, 21, S195-S216.	0.4	11

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37	Mining High-Utility Itemsets with Both Positive and Negative Unit Profits from Uncertain Databases. Lecture Notes in Computer Science, 2017, , 434-446.	1.0	12
38	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
39	Efficiently mining high utility sequential patterns in static and streaming data. Intelligent Data Analysis, 2017, 21, S103-S135.	0.4	10
40	Efficient Multi-Destinations Route Planning with Deadlines and Cost Constraints. , 2017, , .		1
41	Hepatocellular carcinomaâ€associated singleâ€nucleotide variants and deletions identified by the use of genomeâ€wide highâ€throughput analysis of hepatitis B virus. Journal of Pathology, 2017, 243, 176-192.	2.1	29
42	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
43	An Efficient Framework for Multirequest Route Planning in Urban Environments. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 869-879.	4.7	23
44	EFIM: a fast and memory efficient algorithm for high-utility itemset mining. Knowledge and Information Systems, 2017, 51, 595-625.	2.1	179
45	Efficient big image data retrieval using clustering index and parallel computation. , 2017, , .		2
46	A Big Data Analytical Framework for Sports Behavior Mining and Personalized Health Services. , 2017, , .		11
47	EFIM-Closed: Fast and Memory Efficient Discovery of Closed High-Utility Itemsets. Lecture Notes in Computer Science, 2016, , 199-213.	1.0	37
48	PFrauDetector: A Parallelized Graph Mining Approach for Efficient Fraudulent Phone Call Detection. , 2016, , .		4
49	Mining disease sequential risk patterns from nationwide clinical databases for early assessment of chronic obstructive pulmonary disease. , 2016, , .		2
50	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
51	An intelligent recommender system based onÂpredictive analysis in telehealthcare environment. Web Intelligence, 2016, 14, 325-336.	0.1	20
52	Integrating tourist packages and tourist attractions for personalized trip planning based on travel constraints. GeoInformatica, 2016, 20, 741-763.	2.0	20
53	Efficient algorithms for mining high-utility itemsets in uncertain databases. Knowledge-Based Systems, 2016, 96, 171-187.	4.0	103
54	Fast algorithms for mining high-utility itemsets with various discount strategies. Advanced Engineering Informatics, 2016, 30, 109-126.	4.0	43

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55	Efficient Algorithms for Mining Top-K High Utility Itemsets. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 54-67.	4.0	200
56	Weighted frequent itemset mining over uncertain databases. Applied Intelligence, 2016, 44, 232-250.	3.3	50
57	Aligning to the sample-specific reference sequence to optimize the accuracy of next-generation sequencing analysis for hepatitis B virus. Hepatology International, 2016, 10, 147-157.	1.9	12
58	Efficient Mining of Uncertain Data for High-Utility Itemsets. Lecture Notes in Computer Science, 2016, , 17-30.	1.0	1
59	EFIM: A Highly Efficient Algorithm for High-Utility Itemset Mining. Lecture Notes in Computer Science, 2015, , 530-546.	1.0	101
60	UP-Miner: A Utility Pattern Mining Toolbox. , 2015, , .		5
61	Mining closed+ high utility itemsets without candidate generation. , 2015, , .		36
62	Mining Disease Risk Patterns from Nationwide Clinical Databases for the Assessment of Early Rheumatoid Arthritis Risk. PLoS ONE, 2015, 10, e0122508.	1.1	20
63	Global Oct4 target gene analysis reveals novel downstream *PTEN* and *TNC* genes required for drug-resistance and metastasis in lung cancer. Nucleic Acids Research, 2015, 43, 1593-1608.	6.5	51
64	Reliable Early Classification on Multivariate Time Series with Numerical and Categorical Attributes. Lecture Notes in Computer Science, 2015, , 199-211.	1.0	30
65	Mining high-utility itemsets with various discount strategies. , 2015, , .		6
66	Hewin: High expected weighted itemset mining in uncertain databases. , 2015, , .		1
67	Mining Partially-Ordered Sequential Rules Common to Multiple Sequences. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2203-2216.	4.0	60
68	Discovering utility-based episode rules in complex event sequences. Expert Systems With Applications, 2015, 42, 5303-5314.	4.4	26
69	Efficient algorithms for mining up-to-date high-utility patterns. Advanced Engineering Informatics, 2015, 29, 648-661.	4.0	64
70	Mining High Utility Itemsets in Big Data. Lecture Notes in Computer Science, 2015, , 649-661.	1.0	62
71	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
72	Efficient Mining of High-Utility Sequential Rules. Lecture Notes in Computer Science, 2015, , 157-171.	1.0	38

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73	Design of a Real-Time and Continua-Based Framework for Care Guideline Recommendations. International Journal of Environmental Research and Public Health, 2014, 11, 4262-4279.	1.2	12
74	Network-based analysis identifies epigenetic biomarkers of esophageal squamous cell carcinoma progression. Bioinformatics, 2014, 30, 3054-3061.	1.8	15
75	Efficient vertical mining of high utility quantitative itemsets. , 2014, , .		9
76	Semantic content-based music retrieval using audio and fuzzy-music-sense features. , 2014, , .		7
77	Location semantics prediction for living analytics by mining smartphone data. , 2014, , .		6
78	Trip Recommendation with Multiple User Constraints by Integrating Point-of-Interests and Travel Packages. , 2014, , .		11
79	An efficient projection-based indexing approach for mining high utility itemsets. Knowledge and Information Systems, 2014, 38, 85-107.	2.1	171
80	Applying the maximum utility measure in high utility sequential pattern mining. Expert Systems With Applications, 2014, 41, 5071-5081.	4.4	100
81	FHM: Faster High-Utility Itemset Mining Using Estimated Utility Co-occurrence Pruning. Lecture Notes in Computer Science, 2014, , 83-92.	1.0	263
82	A hybrid scheme for energy-efficient object tracking in sensor networks. Knowledge and Information Systems, 2013, 36, 359-384.	2.1	4
83	Efficient Algorithms for Mining High Utility Itemsets from Transactional Databases. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 1772-1786.	4.0	446
84	Mining interesting user behavior patterns in mobile commerce environments. Applied Intelligence, 2013, 38, 418-435.	3.3	62
85	Mining high utility episodes in complex event sequences. , 2013, , .		68
86	Efficient algorithms for discovering high utility user behavior patterns in mobile commerce environments. Knowledge and Information Systems, 2013, 37, 363-387.	2.1	48
87	Mining differential top-k co-expression patterns from time course comparative gene expression datasets. BMC Bioinformatics, 2013, 14, 230.	1.2	27
88	A framework for cloud-based POI search and trip planning systems. , 2013, , .		1
89	Preference-Aware Community Detection for Item Recommendation. , 2013, , .		6
90	Preference-oriented mining techniques for location-based store search. Knowledge and Information Systems, 2013, 34, 147-169.	2.1	11

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91	Efficient Approaches for Multi-requests Route Planning in Urban Areas. , 2013, , .		4
92	Personalized trip recommendation with multiple constraints by mining user check-in behaviors. , 2012, , .		81
93	EFFICIENTLY MINING HIGH AVERAGE-UTILITY ITEMSETS WITH AN IMPROVED UPPER-BOUND STRATEGY. International Journal of Information Technology and Decision Making, 2012, 11, 1009-1030.	2.3	57
94	Simulation framework for travel trajectory generation and mobile transaction modeling. , 2012, , .		2
95	CTGR-Span: Efficient mining of cross-timepoint gene regulation sequential patterns from microarray datasets. , 2012, , .		0
96	A Novel Methodology for Stock Investment Using Episode Mining and Technical Indicators. , 2012, , .		0
97	Mining top-K high utility itemsets. , 2012, , .		91
98	An improved approach for sequential utility pattern mining. , 2012, , .		3
99	Effective Music Retrieval by Sequential Pattern-Based Alignment. , 2012, , .		0
100	A Mobile Framework for Personalized Diabetes Telecare. , 2012, , .		7
101	Disease Risk Prediction by Mining Personalized Health Trend Patterns: A Case Study on Diabetes. , 2012, , .		6
102	Efficient pattern-based conceptual image retrieval. , 2012, , .		2
103	Efficient algorithms for mining maximal high utility itemsets from data streams with different models. Expert Systems With Applications, 2012, 39, 12947-12960.	4.4	73
104	Semantic Video Retrieval by Integrating Concept- and Content-Aware Mining. , 2011, , .		2
105	Discovering Clinical Biomarkers of Chronic Hepatitis B by Mining Mutation Hotspots. , 2011, , .		4
106	Updating high average-utility itemsets in dynamic databases. , 2011, , .		0
107	Efficient Mining of a Concise and Lossless Representation of High Utility Itemsets. , 2011, , .		29
108	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

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109	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
110	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
111	Hybrid data mining approaches for prevention of drug dispensing errors. Journal of Intelligent Information Systems, 2011, 36, 305-327.	2.8	11
112	Mining fastest path from trajectories with multiple destinations in road networks. Knowledge and Information Systems, 2011, 29, 25-53.	2.1	71
113	Discovery of high utility itemsets from on-shelf time periods of products. Expert Systems With Applications, 2011, 38, 5851-5857.	4.4	83
114	Trip-Mine: An Efficient Trip Planning Approach with Travel Time Constraints. , 2011, , .		52
115	Mining High Utility Mobile Sequential Patterns in Mobile Commerce Environments. Lecture Notes in Computer Science, 2011, , 224-238.	1.0	51
116	A SPEA2-based genetic-fuzzy mining algorithm. , 2010, , .		8
117	A novel method for mining temporally dependent association rules in three-dimensional microarray datasets. , 2010, , .		7
118	Agent-based optimization of biological response networks. , 2010, , .		0
119	A PIP-based evolutionary approach for time series segmentation and pattern discovery. , 2010, , .		2
120	Mining High Transaction-Weighted Utility Itemsets. , 2010, , .		4
121	A Summary of Genetic-Fuzzy Data Mining Techniques. , 2010, , .		3
122	UP-Growth. , 2010, , .		322
123	Genetic-Fuzzy Data Mining Techniques. , 2010, , .		0
124	Online mining of temporal maximal utility itemsets from data streams. , 2010, , .		50
125	Effective image semantic annotation by discovering visual-concept associations from image-concept distribution model. , 2010, , .		3
126	Projection-Based Utility Mining with an Efficient Indexing Mechanism. , 2010, , .		2

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127	A novel peak alignment method for LC-MS data analysis using cluster-based techniques. , 2010, , .		0
128	PTCR-Miner: Progressive Temporal Class Rule Mining for Multivariate Temporal Data Classification. , 2010, , .		0
129	Efficient Incremental Mining of Qualified Web Traversal Patterns without Scanning Original Databases. , 2009, , .		3
130	Speeding up genetic-fuzzy mining by fuzzy clustering. , 2009, , .		5
131	Effective temporal data classification by integrating sequential pattern mining and probabilistic induction. Expert Systems With Applications, 2009, 36, 9524-9532.	4.4	48
132	Efficient mining of multilevel gene association rules from microarray and gene ontology. Information Systems Frontiers, 2009, 11, 433-447.	4.1	10
133	A Framework for Personalized Health Trend Analysis. , 2009, , .		1
134	Ontology-Based Semantic Web Image Retrieval by Utilizing Textual and Visual Annotations. , 2009, , .		2
135	Data mining for biomarker discovery: The time is ripe. , 2009, , .		0
136	Mining Cluster-Based Mobile Sequential Patterns in Location-Based Service Environments. , 2009, , .		32
137	An efficient algorithm for mining temporal high utility itemsets from data streams. Journal of Systems and Software, 2008, 81, 1105-1117.	3.3	80
138	Effective Ranking and Recommendation on Web Page Retrieval by Integrating Association Mining and PageRank. , 2008, , .		5
139	An Integrated Data Mining System for Patient Monitoring with Applications on Asthma Care. , 2008, , .		10
140	Mining Region-Based Movement Patterns for Energy-Efficient Object Tracking in Sensor Networks. , 2008, , .		4
141	Energy Efficient Object Tracking in Sensor Networks by Mining Temporal Moving Patterns. , 2008, , .		7
142	An energy saving strategy for object tracking in sensor networks by mining seamless temporal moving patterns. , 2008, , .		0
143	Cluster-Based Evaluation in Fuzzy-Genetic Data Mining. IEEE Transactions on Fuzzy Systems, 2008, 16, 249-262.	6.5	43
144	A divide-and-conquer genetic-fuzzy mining approach for items with multiple minimum supports. , 2008, , .		1

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145	Intelligent Concept-Oriented and Content-Based Image Retrieval by using data mining and query decomposition techniques. , 2008, , .		3
146	A Novel Recommendation Method Based on Rough Set and Integrated Feature Mining. , 2008, , .		1
147	Development of a Vital Sign Data Mining System for Chronic Patient Monitoring. , 2008, , .		8
148	Mining the Shortest Path within a Travel Time Constraint in Road Network Environments. , 2008, , .		5
149	A multi-objective genetic-fuzzy mining algorithm. , 2008, , .		3
150	Intelligent Multimedia Recommender by Integrating Annotation and Association Mining. , 2008, , .		7
151	Effective Video Annotation by Mining Visual Features and Speech Features. , 2007, , .		1
152	A Genetic-Fuzzy Mining Approach for Items with Multiple Minimum Supports. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	9
153	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
154	Gene Relation Discovery by Mining Similar Subsequences in Time-Series Microarray Data. , 2007, , .		7
155	A modified approach to speed up genetic-fuzzy data mining with divide-and-conquer strategy. , 2007, , .		1
156	A Comparison of Different Fitness Functions for Extracting Membership Functions Used in Fuzzy Data Mining. , 2007, , .		7
157	Mining temporal mobile sequential patterns in location-based service environments. , 2007, , .		20
158	Prediction of user navigation patterns by mining the temporal web usage evolution. Soft Computing, 2007, 12, 157-163.	2.1	13
159	Towards Parameter-less and Similarity-based Fuzzy Clustering based on PCM Method. , 2006, , .		0
160	Segmentation of Time Series by the Clustering and Genetic Algorithms. , 2006, , .		13
161	A Cluster-Based Fuzzy-Genetic Mining Approach for Association Rules and Membership Functions. , 2006, , .		4
162	MINING MULTILEVEL ASSOCIATION RULES FROM GENE ONTOLOGY AND MICROARRAY DATA. Science, Engineering, and Biology Informatics, 2006, , 321-337.	0.1	0

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163	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