

Wynne Hsu

List of Publications by Year in descending order

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Version: 2024-02-01

128
papers

6,290
citations

136740

32
h-index

114278

63
g-index

133
all docs

133
docs citations

133
times ranked

5729
citing authors

#	ARTICLE	IF	CITATIONS
1	A deep-learning system for the assessment of cardiovascular disease risk via the measurement of retinal-vessel calibre. <i>Nature Biomedical Engineering</i> , 2021, 5, 498-508.	11.6	131
2	A deep learning algorithm to detect chronic kidney disease from retinal photographs in community-based populations. <i>The Lancet Digital Health</i> , 2020, 2, e295-e302.	5.9	130
3	Artificial intelligence for teleophthalmology-based diabetic retinopathy screening in a national programme: an economic analysis modelling study. <i>The Lancet Digital Health</i> , 2020, 2, e240-e249.	5.9	152
4	Technical and imaging factors influencing performance of deep learning systems for diabetic retinopathy. <i>Npj Digital Medicine</i> , 2020, 3, 40.	5.7	28
5	Mitigating Misinformation in Online Social Network with Top-k Debunkers and Evolving User Opinions. , 2020, , .		20
6	Generative Data Augmentation for Diabetic Retinopathy Classification. , 2020, , .		17
7	Latent Retrieval for Large-Scale Fact-Checking and Question Answering with NLI training. , 2020, , .		3
8	Artificial Intelligence Screening for Diabetic Retinopathy: the Real-World Emerging Application. <i>Current Diabetes Reports</i> , 2019, 19, 72.	1.7	107
9	Enhanced Detection of Referable Diabetic Retinopathy via DCNNs and Transfer Learning. <i>Lecture Notes in Computer Science</i> , 2019, , 282-288.	1.0	2
10	Artificial Intelligence Using Deep Learning in Classifying Side of the Eyes and Width of Field for Retinal Fundus Photographs. <i>Lecture Notes in Computer Science</i> , 2019, , 309-315.	1.0	2
11	Artificial intelligence using deep learning to screen for referable and vision-threatening diabetic retinopathy in Africa: a clinical validation study. <i>The Lancet Digital Health</i> , 2019, 1, e35-e44.	5.9	205
12	Deep learning in estimating prevalence and systemic risk factors for diabetic retinopathy: a multi-ethnic study. <i>Npj Digital Medicine</i> , 2019, 2, 24.	5.7	53
13	Building Trust in Deep Learning System towards Automated Disease Detection. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019, 33, 9516-9521.	3.6	10
14	Propagation Mechanism for Deep and Wide Neural Networks. , 2019, , .		4
15	Technical and clinical challenges of A.I. in retinal image analysis. , 2019, , 445-466.		7
16	FLEX: Faithful Linguistic Explanations for Neural Net Based Model Decisions. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019, 33, 2539-2546.	3.6	5
17	Feature Isolation for Hypothesis Testing in Retinal Imaging: An Ischemic Stroke Prediction Case Study. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019, 33, 9510-9515.	3.6	14
18	Intermediate Goals in Deep Learning for Retinal Image Analysis. <i>Lecture Notes in Computer Science</i> , 2019, , 276-281.	1.0	2

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19	A Differential-Based Approach for Vessel Type Classification in Retinal Images. , 2018, , .		1
20	Validation of a Natural Language Processing Algorithm for Detecting Infectious Disease Symptoms in Primary Care Electronic Medical Records in Singapore. JMIR Medical Informatics, 2018, 6, e36.	1.3	11
21	Temporal Influence Blocking: Minimizing the Effect of Misinformation in Social Networks. , 2017, , .		33
22	Profiling Entities over Time in the Presence of Unreliable Sources. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1522-1535.	4.0	2
23	Development and Validation of a Deep Learning System for Diabetic Retinopathy and Related Eye Diseases Using Retinal Images From Multiethnic Populations With Diabetes. JAMA - Journal of the American Medical Association, 2017, 318, 2211.	3.8	1,442
24	MAROON+: A System for Profiling Entities over Time. , 2017, , .		0
25	iFACT. , 2017, , .		7
26	Comparison of Common Retinal Vessel Caliber Measurement Software and a Conversion Algorithm. Translational Vision Science and Technology, 2016, 5, 11.	1.1	42
27	Targeted Influence Maximization in Social Networks. , 2016, , .		40
28	Target-Oriented Keyword Search over Temporal Databases. Lecture Notes in Computer Science, 2016, , 3-19.	1.0	3
29	Integrated Optic Disc and Cup Segmentation with Deep Learning. , 2015, , .		52
30	Node Immunization over Infectious Period. , 2015, , .		17
31	Linking Temporal Records for Profiling Entities. , 2015, , .		17
32	LinkNet: capturing temporal dependencies among spatial regions. Distributed and Parallel Databases, 2015, 33, 165-200.	1.0	2
33	Mining Brokers in Dynamic Social Networks. , 2015, , .		6
34	Entity profiling with varying source reliabilities. , 2014, , .		16
35	Measurement of Macular Fractal Dimension Using a Computer-Assisted Program. , 2014, 55, 2237.		32
36	Making recommendations from multiple domains. , 2013, , .		52

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37	Modeling user's receptiveness over time for recommendation. , 2013, , .		19
38	Utilizing users' tipping points in E-commerce Recommender systems. , 2013, , .		4
39	Simultaneously Identifying All True Vessels From Segmented Retinal Images. IEEE Transactions on Biomedical Engineering, 2013, 60, 1851-1858.	2.5	42
40	Community-based user recommendation in uni-directional social networks. , 2013, , .		37
41	Tagcloud-based explanation with feedback for recommender systems. , 2013, , .		9
42	Efficient Mining of Lag Patterns in Evolving Time Series. Lecture Notes in Computer Science, 2013, , 76-101.	1.0	0
43	Database research at the National University of Singapore. SIGMOD Record, 2013, 42, 46-51.	0.7	0
44	Incremental Mining of Top-k Maximal Influential Paths in Network Data. Lecture Notes in Computer Science, 2013, , 173-199.	1.0	0
45	Increasing temporal diversity with purchase intervals. , 2012, , .		40
46	Integrating Frequent Pattern Mining from Multiple Data Domains for Classification. , 2012, , .		5
47	Incorporating Duration Information for Trajectory Classification. , 2012, , .		18
48	Correlation and Reproducibility of Retinal Vascular Geometric Measurements for Stereoscopic Retinal Images of the Same Eyes. Ophthalmic Epidemiology, 2012, 19, 322-327.	0.8	11
49	Retinal Vascular Fractal Dimension and Its Relationship With Cardiovascular and Ocular Risk Factors. American Journal of Ophthalmology, 2012, 154, 663-674.e1.	1.7	98
50	Top-k Maximal Influential Paths in Network Data. Lecture Notes in Computer Science, 2012, , 369-383.	1.0	1
51	Fractal analysis of retinal microvasculature and coronary heart disease mortality. European Heart Journal, 2011, 32, 422-429.	1.0	124
52	Discriminative Mutation Chains in Virus Sequences. , 2011, , .		1
53	Retinal Vascular Tortuosity, Blood Pressure, and Cardiovascular Risk Factors. Ophthalmology, 2011, 118, 812-818.	2.5	220
54	Quantitative and qualitative retinal microvascular characteristics and blood pressure. Journal of Hypertension, 2011, 29, 1380-1391.	0.3	196

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55	A unified framework for recommendations based on quaternary semantic analysis. , 2011, , .		12
56	MaxFirst for MaxBRkNN. , 2011, , .		77
57	Distributed Coordination Guidance in Multi-agent Reinforcement Learning. , 2011, , .		1
58	Similar Subsequence Search in Time Series Databases. Lecture Notes in Computer Science, 2011, , 232-246.	1.0	3
59	A New Method to Measure Peripheral Retinal Vascular Caliber over an Extended Area. Microcirculation, 2010, 17, no-no.	1.0	84
60	Effect of Image Quality, Color, and Format on the Measurement of Retinal Vascular Fractal Dimension. , 2010, 51, 5525.		27
61	Mining mutation chains in biological sequences. , 2010, , .		4
62	Retinal Vascular Fractal Dimension Measurement and Its Influence from Imaging Variation: Results of Two Segmentation Methods. Current Eye Research, 2010, 35, 850-856.	0.7	37
63	Alterations in Retinal Microvascular Geometry in Young Type 1 Diabetes. Diabetes Care, 2010, 33, 1331-1336.	4.3	128
64	Lens opacity and refractive influences on the measurement of retinal vascular fractal dimension. Acta Ophthalmologica, 2010, 88, e234-40.	0.6	29
65	Answering Top-k Similar Region Queries. Lecture Notes in Computer Science, 2010, , 186-201.	1.0	19
66	Lag Patterns in Time Series Databases. Lecture Notes in Computer Science, 2010, , 209-224.	1.0	5
67	FARM : Feature-Assisted Aggregate Route Mining in Trajectory Data. , 2009, , .		3
68	Exploiting Domain Knowledge to Improve Biological Significance of Biclusters with Key Missing Genes. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	1
69	Quantitative Assessment of Early Diabetic Retinopathy Using Fractal Analysis. Diabetes Care, 2009, 32, 106-110.	4.3	179
70	Detection of Retinal Blood Vessels Based on Nonlinear Projections. Journal of Signal Processing Systems, 2009, 55, 103-112.	1.4	41
71	Analyzing Abnormal Events from Spatio-temporal Trajectories. , 2009, , .		1
72	Effective Detection of Retinal Exudates in Fundus Images. , 2009, , .		5

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73	Consistent Top-k Queries over Time. Lecture Notes in Computer Science, 2009, , 51-65.	1.0	14
74	Detecting Aggregate Incongruities in XML. Lecture Notes in Computer Science, 2009, , 601-615.	1.0	0
75	A PrÃ¼fer Based Approach to Process Top-k Queries in XML. Lecture Notes in Computer Science, 2009, , 348-355.	1.0	0
76	Efficient mining of frequent XML query patterns with repeating-siblings. Information and Software Technology, 2008, 50, 375-389.	3.0	15
77	The Retinal Vasculature as a Fractal: Methodology, Reliability, and Relationship to Blood Pressure. Ophthalmology, 2008, 115, 1951-1956.e1.	2.5	180
78	Correlation-based Attribute Outlier Detection in XML. , 2008, , .		8
79	Discovering geographical-specific interests from web click data. , 2008, , .		5
80	Mining relationships among interval-based events for classification. , 2008, , .		109
81	Discovering Spatial Interaction Patterns. , 2008, , 95-109.		8
82	Prediction of Cerebral Aneurysm Rupture. , 2007, , .		5
83	Segmentation of Retinal Vessels Using Nonlinear Projections. , 2007, , .		4
84	Finding Orientation-Sensitive Patterns in Snapshot Databases. , 2007, , .		1
85	Mining Prevalence-Based Ratio Patterns. , 2007, , .		1
86	Labeling network motifs in protein interactomes for protein function prediction. , 2007, , .		41
87	Correlation-Based Detection of Attribute Outliers. , 2007, , 164-175.		12
88	An Estimation System for XPath Expressions. , 2006, , .		7
89	A Tree Matching Approach for the Temporal Registration of Retinal Images. , 2006, , .		2
90	BORDER: efficient computation of boundary points. IEEE Transactions on Knowledge and Data Engineering, 2006, 18, 289-303.	4.0	72

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91	A Partition-Based Approach to Graph Mining. , 2006, , .		7
92	Increasing confidence of protein interactomes using network topological metrics. Bioinformatics, 2006, 22, 1998-2004.	1.8	70
93	Increasing confidence of protein-protein interactomes. Genome Informatics, 2006, 17, 284-97.	0.4	11
94	Discovering reliable protein interactions from high-throughput experimental data using network topology. Artificial Intelligence in Medicine, 2005, 35, 37-47.	3.8	38
95	Automatic Grading of Retinal Vessel Caliber. IEEE Transactions on Biomedical Engineering, 2005, 52, 1352-1355.	2.5	98
96	Clustering in Dynamic Spatial Databases. Journal of Intelligent Information Systems, 2005, 24, 5-27.	2.8	19
97	A framework for mining topological patterns in spatio-temporal databases. , 2005, , .		26
98	Automated Microaneurysm Segmentation and Detection using Generalized Eigenvectors. , 2005, , .		13
99	Automated Optic Disc Localization and Contour Detection Using Ellipse Fitting and Wavelet Transform. Lecture Notes in Computer Science, 2004, , 139-151.	1.0	29
100	Finding hot query patterns over an XQuery stream. VLDB Journal, 2004, 13, 318-332.	2.7	23
101	Remote homolog detection using local sequence-structure correlations. Proteins: Structure, Function and Bioinformatics, 2004, 57, 518-530.	1.5	36
102	An evaluation of XML indexes for structural join. SIGMOD Record, 2004, 33, 28-33.	0.7	18
103	Mining viewpoint patterns in image databases. , 2003, , .		16
104	On the accurate counting of tumor cells. IEEE Transactions on Nanobioscience, 2003, 2, 94-103.	2.2	34
105	Efficient remote homology detection using local structure. Bioinformatics, 2003, 19, 2294-2301.	1.8	67
106	Efficient Mining of XML Query Patterns for Caching. , 2003, , 69-80.		75
107	Concept lattice based composite classifiers for high predictability. Journal of Experimental and Theoretical Artificial Intelligence, 2002, 14, 143-156.	1.8	18
108	Image Mining: Trends and Developments. Journal of Intelligent Information Systems, 2002, 19, 7-23.	2.8	106

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109	Image mining in IRIS. SIGMOD Record, 2000, 29, 593.	0.7	12
110	Analyzing the subjective interestingness of association rules. IEEE Intelligent Systems, 2000, 15, 47-55.	0.2	154
111	A CORBA Based QOS Support for Distributed Multimedia Applications. Multimedia Tools and Applications, 2000, 12, 209-233.	2.6	0
112	Approximating Content-Based Object-Level Image Retrieval. Multimedia Tools and Applications, 2000, 12, 59-79.	2.6	12
113	Image mining in IRIS. , 2000, , .		11
114	Multi-level organization and summarization of the discovered rules. , 2000, , .		61
115	Pruning and summarizing the discovered associations. , 1999, , .		280
116	Rapid Prototyping with Constraints-based Scheduling for Multimedia Applications. Multimedia Tools and Applications, 1999, 8, 175-195.	2.6	0
117	Finding interesting patterns using user expectations. IEEE Transactions on Knowledge and Data Engineering, 1999, 11, 817-832.	4.0	98
118	Current research in the conceptual design of mechanical products. CAD Computer Aided Design, 1998, 30, 377-389.	1.4	181
119	Approximating scheduling for multimedia applications under overload conditions. International Journal of Approximate Reasoning, 1998, 19, 57-71.	1.9	0
120	Twins: A Practical Vision-based 3D Mouse. Real Time Imaging, 1998, 4, 389-401.	1.6	0
121	Fast image retrieval using color-spatial information. VLDB Journal, 1998, 7, 115-128.	2.7	38
122	Synthesis of design concepts from a design for assembly perspective. Computer Integrated Manufacturing Systems, 1998, 11, 1-13.	0.1	18
123	A computer-aided product redesign system for robotic assembly. Robotica, 1998, 16, 239-249.	1.3	1
124	Automatic generation of goal regions for assembly tasks in the presence of uncertainty. IEEE Transactions on Automation Science and Engineering, 1996, 12, 313-323.	2.4	6
125	Feedback approach to design for assembly by evaluation of assembly plan. CAD Computer Aided Design, 1993, 25, 395-410.	1.4	53
126	Scheduling multimedia applications under overload and non-deterministic conditions. , 0, , .		2

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127	KPN: a Petri net model for general knowledge representation and reasoning. , 0, , .		2
128	Spatial data mining: clustering of hot spots and pattern recognition. , 0, , .		7