

Chi-Ren Shyu

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

2,452
citations

279487

23
h-index

233125

45
g-index

114
all docs

114
docs citations

114
times ranked

2787
citing authors

#	ARTICLE	IF	CITATIONS
1	ASSERT: A Physician-in-the-Loop Content-Based Retrieval System for HRCT Image Databases. <i>Computer Vision and Image Understanding</i> , 1999, 75, 111-132.	3.0	315
2	Acute Ischemic Stroke and COVID-19. <i>Stroke</i> , 2021, 52, 905-912.	1.0	204
3	Methylation microarray analysis of late-stage ovarian carcinomas distinguishes progression-free survival in patients and identifies candidate epigenetic markers. <i>Clinical Cancer Research</i> , 2002, 8, 2246-52.	3.2	156
4	GeoIRIS: Geospatial Information Retrieval and Indexing System—Content Mining, Semantics Modeling, and Complex Queries. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 839-852.	2.7	155
5	Automated Storage and Retrieval of Thin-Section CT Images to Assist Diagnosis: System Description and Preliminary Assessment. <i>Radiology</i> , 2003, 228, 265-270.	3.6	153
6	A Patient-Centric Health Information Exchange Framework Using Blockchain Technology. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 2169-2176.	3.9	138
7	Advancing health equity and access using telemedicine: a geospatial assessment. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2019, 26, 796-805.	2.2	92
8	Determining Effects of Non-synonymous SNPs on Protein-Protein Interactions using Supervised and Semi-supervised Learning. <i>PLoS Computational Biology</i> , 2014, 10, e1003592.	1.5	71
9	A Sorghum MYB Transcription Factor Induces 3-Deoxyanthocyanidins and Enhances Resistance against Leaf Blights in Maize. <i>Molecules</i> , 2015, 20, 2388-2404.	1.7	61
10	A Systematic Review of Federated Learning in the Healthcare Area: From the Perspective of Data Properties and Applications. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11191.	1.3	60
11	Reinfection With Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) in Patients Undergoing Serial Laboratory Testing. <i>Clinical Infectious Diseases</i> , 2022, 74, 294-300.	2.9	57
12	A Connected Set of Genes Associated with Programmed Cell Death Implicated in Controlling the Hypersensitive Response in Maize. <i>Genetics</i> , 2013, 193, 609-620.	1.2	50
13	Long identical multispecies elements in plant and animal genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1183-91.	3.3	43
14	Using Human Perceptual Categories for Content-Based Retrieval from a Medical Image Database. <i>Computer Vision and Image Understanding</i> , 2002, 88, 119-151.	3.0	42
15	How Can Virtual Reality Reshape Furniture Retailing?. <i>Clothing and Textiles Research Journal</i> , 2008, 26, 143-163.	2.2	35
16	DOMMINO 2.0: integrating structurally resolved protein-, RNA-, and DNA-mediated macromolecular interactions. <i>Database: the Journal of Biological Databases and Curation</i> , 2016, 2016, .	1.4	34
17	Measurement Issues in Anthropometric Measures of Limb Volume Change in Persons at Risk for and Living with Lymphedema: A Reliability Study. <i>Journal of Personalized Medicine</i> , 2015, 5, 341-353.	1.1	33
18	Developing a case-based reasoning knowledge repository to support a learning community—An example from the technology integration community. <i>Educational Technology Research and Development</i> , 2003, 51, 45-62.	2.0	32

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19	Knowledge-Driven Multidimensional Indexing Structure for Biomedical Media Database Retrieval. IEEE Transactions on Information Technology in Biomedicine, 2007, 11, 320-331.	3.6	32
20	Exploring microRNA-mediated alteration of EGFR signaling pathway in non-small cell lung cancer using an mRNA:miRNA regression model supported by target prediction databases. Genomics, 2014, 104, 504-511.	1.3	32
21	Knowledge Representation and Sharing Using Visual Semantic Modeling for Diagnostic Medical Image Databases. IEEE Transactions on Information Technology in Biomedicine, 2005, 9, 538-553.	3.6	30
22	The effects of conceptual description and search practice on users' mental models and information seeking in a case-based reasoning retrieval system. Information Processing and Management, 2008, 44, 294-309.	5.4	27
23	DOMMINO: a database of macromolecular interactions. Nucleic Acids Research, 2012, 40, D501-D506.	6.5	27
24	Subarachnoid Hemorrhage and COVID-19: An Analysis of 282,718 Patients. World Neurosurgery, 2021, 151, e615-e620.	0.7	27
25	ProteinDBS: a real-time retrieval system for protein structure comparison. Nucleic Acids Research, 2004, 32, W572-W575.	6.5	26
26	Generalizable Layered Blockchain Architecture for Health Care Applications: Development, Case Studies, and Evaluation. Journal of Medical Internet Research, 2020, 22, e19029.	2.1	22
27	Charged residues at protein interaction interfaces: Unexpected conservation and orchestrated divergence. Protein Science, 2011, 20, 1275-1284.	3.1	21
28	Visual-Semantic Modeling in Content-Based Geospatial Information Retrieval Using Associative Mining Techniques. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 38-42.	1.4	20
29	Computational Identification of Reassortments in Avian Influenza Viruses. Avian Diseases, 2007, 51, 434-439.	0.4	19
30	Histological Quantitation of Brain Injury Using Whole Slide Imaging: A Pilot Validation Study in Mice. PLoS ONE, 2014, 9, e92133.	1.1	19
31	Laboratory Tests for COVID-19: A Review of Peer-Reviewed Publications and Implications for Clinical Use. Missouri Medicine, 2020, 117, 184-195.	0.3	17
32	A fast SCOP fold classification system using content-based E-Predict algorithm. BMC Bioinformatics, 2006, 7, 362.	1.2	15
33	Heritable genotype contrast mining reveals novel gene associations specific to autism subgroups. Journal of Biomedical Informatics, 2018, 77, 50-61.	2.5	15
34	Income Inequality and Health: Expanding Our Understanding of State-Level Effects by Using a Geospatial Big Data Approach. Social Science Computer Review, 0, , 089443931987299.	2.6	15
35	Effect of Race and Ethnicity on In-Hospital Mortality in Patients with COVID-2019. Ethnicity and Disease, 2021, 31, 389-398.	1.0	15
36	Applying Blockchain Technology for Health Information Exchange and Persistent Monitoring for Clinical Trials. AMIA ... Annual Symposium proceedings, 2018, 2018, 1167-1175.	0.2	14

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37	Feature-based classification of native and non-native protein-protein interactions: Comparing supervised and semi-supervised learning approaches. <i>Proteomics</i> , 2011, 11, 4321-4330.	1.3	13
38	Exploratory Data Mining for Subgroup Cohort Discoveries and Prioritization. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 1456-1468.	3.9	12
39	New-Onset Dementia Among Survivors of Pneumonia Associated With Severe Acute Respiratory Syndrome Coronavirus 2 Infection. <i>Open Forum Infectious Diseases</i> , 2022, 9, ofac115.	0.4	12
40	A fast protein structure retrieval system using image-based distance matrices and multidimensional index. , 0, , .		11
41	Structural Similarity and Classification of Protein Interaction Interfaces. <i>PLoS ONE</i> , 2011, 6, e19554.	1.1	11
42	Fast protein binding site comparisons using visual words representation. <i>Bioinformatics</i> , 2012, 28, 1345-1352.	1.8	11
43	A pathologist-in-the-loop IHC antibody test selection using the entropy-based probabilistic method. <i>Journal of Pathology Informatics</i> , 2012, 3, 1.	0.8	11
44	PathEdEx - Uncovering High-explanatory Visual Diagnostics Heuristics Using Digital Pathology and Multiscale Gaze Data. <i>Journal of Pathology Informatics</i> , 2017, 8, 29.	0.8	11
45	Uncovering influence links in molecular knowledge networks to streamline personalized medicine. <i>Journal of Biomedical Informatics</i> , 2014, 52, 394-405.	2.5	10
46	Explainable artificial intelligence in high-throughput drug repositioning for subgroup stratifications with interventionable potential. <i>Journal of Biomedical Informatics</i> , 2021, 118, 103792.	2.5	10
47	Efficient SCOP-fold classification and retrieval using index-based protein substructure alignments. <i>Bioinformatics</i> , 2009, 25, 2559-2565.	1.8	9
48	PubMed-supported clinical term weighting approach for improving inter-patient similarity measure in diagnosis prediction. <i>BMC Medical Informatics and Decision Making</i> , 2015, 15, 43.	1.5	9
49	Medical calculators: Prevalence, and barriers to use. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 179, 105002.	2.6	9
50	Intracerebral Hemorrhage and Coronavirus Disease 2019 in a Cohort of 282,718 Hospitalized Patients. <i>Neurocritical Care</i> , 2022, 36, 259-265.	1.2	9
51	Immunogenomic pathways associated with cytotoxic lymphocyte infiltration and survival in colorectal cancer. <i>BMC Cancer</i> , 2020, 20, 124.	1.1	8
52	Multi-Index Multi-Object Content-Based Retrieval. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 4036-4049.	2.7	7
53	Role of domain knowledge in developing user-centered medical-image indexing. <i>Journal of the Association for Information Science and Technology</i> , 2012, 63, 225-241.	2.6	7
54	Investigating the Impact of Intensive Care Unit Interruptions on Patient Safety Events and Electronic Health Records Use: An Observational Study. <i>Journal of Patient Safety</i> , 2021, 17, e321-e326.	0.7	7

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55	Artificial Intelligence-Driven Structurization of Diagnostic Information in Free-Text Pathology Reports. <i>Journal of Pathology Informatics</i> , 2020, 11, 4.	0.8	7
56	Multi-source and ontology-based retrieval engine for maize mutant phenotypes. <i>Database: the Journal of Biological Databases and Curation</i> , 2011, 2011, bar012-bar012.	1.4	6
57	Applications of PathFinder Network Scaling for Improving the Ranking of Satellite Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2013, 6, 1092-1099.	2.3	6
58	Using Temporal Mining to Examine the Development of Lymphedema in Breast Cancer Survivors. <i>Nursing Research</i> , 2013, 62, 122-129.	0.8	6
59	A neotropical Miocene pollen database employing image-based search and semantic modeling. <i>Applications in Plant Sciences</i> , 2014, 2, 1400030.	0.8	6
60	Performance of human and server prediction in CAPRI rounds 38-45. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 1110-1120.	1.5	6
61	Current and Prospective Methods for Assessing Anti-Tumor Immunity in Colorectal Cancer. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4802.	1.8	6
62	Utilization and Outcomes of Acute Revascularization Treatments in Ischemic Stroke Patients with SARS-CoV-2 Infection. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2022, 31, 106157.	0.7	6
63	Drug Repositioning and Subgroup Discovery for Precision Medicine Implementation in Triple Negative Breast Cancer. <i>Cancers</i> , 2021, 13, 6278.	1.7	6
64	Spatial lesion indexing for medical image databases using force histograms. , 0, , .		5
65	SEARCHING AND MINING VISUALLY OBSERVED PHENOTYPES OF MAIZE MUTANTS. <i>Journal of Bioinformatics and Computational Biology</i> , 2007, 05, 1193-1213.	0.3	5
66	Novel Approach for Coexpression Analysis of E2F1 and MYC Target Genes in Chronic Myelogenous Leukemia. <i>BioMed Research International</i> , 2014, 2014, 1-7.	0.9	5
67	Design and evaluation of a personal digital assistant-based alerting service for clinicians. <i>Journal of the Medical Library Association: JMLA</i> , 2004, 92, 438-44.	0.6	5
68	Applying Blockchain Technology to Enhance Clinical Trial Recruitment. <i>AMIA ... Annual Symposium proceedings</i> , 2019, 2019, 1276-1285.	0.2	5
69	Information mining from human visual reasoning about multi-temporal, high-resolution satellite imagery. <i>International Journal of Image and Data Fusion</i> , 2012, 3, 243-256.	0.8	4
70	PBSword: a web server for searching similar protein-protein binding sites. <i>Nucleic Acids Research</i> , 2012, 40, W428-W434.	6.5	4
71	Visual Reasoning Indexing and Retrieval Using In-Memory Computing. <i>International Journal of Semantic Computing</i> , 2016, 10, 299-322.	0.4	4
72	Quantitative evaluation of impact attenuation by football helmets using a modal impulse hammer. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2019, 233, 301-311.	0.4	4

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73	Monocarboxylate Transporter-2 Expression Restricts Tumor Growth in a Murine Model of Lung Cancer: A Multi-Omic Analysis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10616.	1.8	4
74	Contrast Pattern Mining With the T1D Exchange Clinic Registry Reveals Complex Phenotypic Factors and Comorbidity Patterns Associated With Familial Versus Sporadic Type 1 Diabetes. <i>Diabetes Care</i> , 2022, 45, e56-e59.	4.3	4
75	User-specific semantics for modeling content-based geospatial knowledge. , 2007, , .		3
76	Editorial for the special issue of knowledge discovery and management in biomedical information systems. <i>Information Systems Frontiers</i> , 2009, 11, 345-347.	4.1	3
77	Combining Contrast Mining with Logistic Regression To Predict Healthcare Utilization in a Managed Care Population. <i>Applied Clinical Informatics</i> , 2017, 08, 430-446.	0.8	3
78	Quantifying and understanding the differences in visual activities with contrast subsequences. , 2019, , .		3
79	RHPTree"Risk Hierarchical Pattern Tree for Scalable Long Pattern Mining. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2022, 16, 1-33.	2.5	3
80	Semantic integration and knowledge exchange for diagnostic medical image databases. , 0, , .		2
81	Ontology Driven Content Mining and Semantic Queries for Satellite Image Databases. , 2008, , .		2
82	ProteinDBS v2.0: a web server for global and local protein structure search. <i>Nucleic Acids Research</i> , 2010, 38, W53-W58.	6.5	2
83	A study of factors that influence the accuracy of content-based geospatial ranking systems. <i>International Journal of Image and Data Fusion</i> , 2012, 3, 257-268.	0.8	2
84	MRSMRS: Mining repetitive sequences in a MapReduce setting. , 2014, , .		2
85	Eye Gaze Pattern Analysis of Whole Slide Image Viewing Behavior in PathEdEx Platform. <i>Microscopy and Microanalysis</i> , 2017, 23, 248-249.	0.2	2
86	Efficient GPU-accelerated extraction of imperfect inverted repeats from DNA sequences. , 2017, , .		2
87	Computational modeling of human reasoning processes for interpretable visual knowledge: a case study with radiographers. <i>Scientific Reports</i> , 2020, 10, 21620.	1.6	2
88	Predicting cancer interaction networks using text-mining and structure understanding. <i>AMIA ... Annual Symposium proceedings</i> , 2006, , 1123.	0.2	2
89	A preliminary study to understand tacit knowledge and visual routines of medical experts through gaze tracking. <i>AMIA ... Annual Symposium proceedings</i> , 2010, 2010, 21-5.	0.2	2
90	Investigating Health Context Using a Spatial Data Analytical Tool: Development of a Geospatial Big Data Ecosystem. <i>JMIR Medical Informatics</i> , 2022, 10, e35073.	1.3	2

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91	Visual information mining and ranking using graded relevance assessments in satellite image databases. , 2010, , .		1
92	Semantic models for ranking medical images using Dirichlet non-parametric mixture models. , 2011, , .		1
93	Search tactics for medical image retrieval. Proceedings of the American Society for Information Science and Technology, 2011, 48, 1-4.	0.2	1
94	Associative semantic ranking of satellite images using PathFinder Network Scaling ensemble methods. , 2012, , .		1
95	Large scale multi-species palindrome study using distributed in-memory computing. , 2015, , .		1
96	Large scale extraction of perfect and imperfect DNA palindromes using in-memory computing. , 2016, , .		1
97	Visual Reasoning Indexing and Retrieval Using In-memory Computing. , 2016, , .		1
98	Improving retrieval performance in medical image databases using simulated annealing. AMIA ... Annual Symposium proceedings, 2010, 2010, 276-80.	0.2	1
99	Re-engineering a Clinical Trial Management System Using Blockchain Technology: System Design, Development, and Case Studies. Journal of Medical Internet Research, 2022, 24, e36774.	2.1	1
100	New cardiovascular events in the convalescent period among survivors of SARS-CoV-2 infection. International Journal of Stroke, 2023, 18, 437-444.	2.9	1
101	A hybrid tree approach for efficient image database retrieval with dynamic feedback. , 0, , .		0
102	Whither Biological Database Research?. OMICS A Journal of Integrative Biology, 2003, 7, 61-65.	1.0	0
103	PREDICTING RANKED SCOP DOMAINS BY MINING ASSOCIATIONS OF VISUAL CONTENTS IN DISTANCE MATRICES. , 2005, , .		0
104	An accurate classification of native and non-native protein-protein interactions using supervised and semi-supervised learning approaches. , 2010, , .		0
105	Genetic algorithm supported by graphical processing unit improves the exploration of effective connectivity in functional brain imaging. Frontiers in Computational Neuroscience, 2015, 9, 50.	1.2	0
106	An Integrated Approach to Sequence-Independent Local Alignment of Protein Binding Sites. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2015, 12, 298-308.	1.9	0
107	Immunogenomic Pathway and Survival Analysis in Colorectal Cancer Patients Based on Tumor Location and Microsatellite Status. Journal of the American College of Surgeons, 2018, 227, S66.	0.2	0
108	A New Mechanism for T-ALL Leukemogenesis: Early Expression of Alpha-Beta TCR Occurs in a Natural Subset of CD4-CD8- Double Negative (DN) Thymocytes Where MHC Engagement May Drive NOTCH Mutation and Tumor Initiation. Blood, 2019, 134, 1463-1463.	0.6	0

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109	Identifying patient-specific flow of signal transduction perturbed by multiple single-nucleotide alterations. <i>Quantitative Biology</i> , 2020, 8, 336-346.	0.3	0
110	Development of A Blockchain Framework for Virtual Clinical Trials. <i>AMIA ... Annual Symposium proceedings</i> , 2020, 2020, 1412-1420.	0.2	0
111	Contrast Mining for Pattern Discovery and Descriptive Analytics to Tailor Sub-Groups of Patients Using Big Data Solutions. <i>Studies in Health Technology and Informatics</i> , 2017, 245, 544-548.	0.2	0