Huilong Duan

List of Publications by Year
in descending order

126 papers	1,537 citations	394421 19 h-index	414414 32 g-index
142 all docs	142 docs citations	142 times ranked	2133 citing authors

#	ARTICLE	IF	CITATIONS
1	Patients' Acceptance of Smartphone Health Technology for Chronic Disease Management: A Theoretical Model and Empirical Test. JMIR MHealth and UHealth, 2017, 5, e177.	3.7	162
2	Discovery of clinical pathway patterns from event logs using probabilistic topic models. Journal of Biomedical Informatics, 2014, 47, 39-57.	4.3	102
3	Real-time gastric polyp detection using convolutional neural networks. PLoS ONE, 2019, 14, e0214133.	2.5	86
4	PIC, a paediatric-specific intensive care database. Scientific Data, 2020, 7, 14.	5.3	53
5	Changes in Children's Healthcare Visits During Coronavirus Disease-2019 Pandemic in Hangzhou, China. Journal of Pediatrics, 2020, 224, 146-149.	1.8	53
6	Gastric precancerous diseases classification using CNN with a concise model. PLoS ONE, 2017, 12, e0185508.	2.5	50
7	A probabilistic topic model for clinical risk stratification from electronic health records. Journal of Biomedical Informatics, 2015, 58, 28-36.	4.3	45
8	A clinical decision support system for the diagnosis of probable migraine and probable tension-type headache based on case-based reasoning. Journal of Headache and Pain, 2015, 16, 29.	6.0	43
9	Using Goal-Directed Design to Create a Mobile Health App to Improve Patient Compliance With Hypertension Self-Management: Development and Deployment. JMIR MHealth and UHealth, 2020, 8, e14466.	3.7	43
10	A patient-similarity-based model for diagnostic prediction. International Journal of Medical Informatics, 2020, 135, 104073.	3.3	34
11	Archetype relational mapping - a practical openEHR persistence solution. BMC Medical Informatics and Decision Making, 2015, 15, 88.	3.0	33
12	Using neural attention networks to detect adverse medical events from electronic health records. Journal of Biomedical Informatics, 2018, 87, 118-130.	4.3	32
13	Incorporating comorbidities into latent treatment pattern mining for clinical pathways. Journal of Biomedical Informatics, 2016, 59, 227-239.	4.3	27
14	Probabilistic modeling personalized treatment pathways using electronic health records. Journal of Biomedical Informatics, 2018, 86, 33-48.	4.3	26
15	An openEHR based approach to improve the semantic interoperability of clinical data registry. BMC Medical Informatics and Decision Making, 2018, 18, 15.	3.0	26
16	Using the distance between sets of hierarchical taxonomic clinical concepts to measure patient similarity. BMC Medical Informatics and Decision Making, 2019, 19, 91.	3.0	25
17	Using Natural Language Processing Techniques to Provide Personalized Educational Materials for Chronic Disease Patients in China: Development and Assessment of a Knowledge-Based Health Recommender System. JMIR Medical Informatics, 2020, 8, e17642.	2.6	24
18	On local anomaly detection and analysis for clinical pathways. Artificial Intelligence in Medicine, 2015, 65, 167-177.	6.5	22

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19	Utilizing Chinese Admission Records for MACE Prediction of Acute Coronary Syndrome. International Journal of Environmental Research and Public Health, 2016, 13, 912.	2.6	22
20	Development of an openEHR Template for COVID-19 Based on Clinical Guidelines. Journal of Medical Internet Research, 2020, 22, e20239.	4.3	22
21	Identification of Gene Expression Pattern Related to Breast Cancer Survival Using Integrated TCGA Datasets and Genomic Tools. BioMed Research International, 2015, 2015, 1-10.	1.9	21
22	Prediction of complications after paediatric cardiac surgery. European Journal of Cardio-thoracic Surgery, 2020, 57, 350-358.	1.4	21
23	Utilizing dynamic treatment information for MACE prediction of acute coronary syndrome. BMC Medical Informatics and Decision Making, 2019, 19, 5.	3.0	21
24	Modeling EHR with the openEHR approach: an exploratory study in China. BMC Medical Informatics and Decision Making, 2018, 18, 75.	3.0	19
25	Explainable machine-learning predictions for complications after pediatric congenital heart surgery. Scientific Reports, 2021, 11, 17244.	3.3	19
26	Using Mobile Health Technology to Deliver a Community-Based Closed-Loop Management System for Chronic Obstructive Pulmonary Disease Patients in Remote Areas of China: Development and Prospective Observational Study. JMIR MHealth and UHealth, 2020, 8, e15978.	3.7	19
27	Multiple fuzzy c-means clustering algorithm in medical diagnosis. Technology and Health Care, 2015, 23, S519-S527.	1.2	18
28	Data configurations in railway signalling engineering - an application of enterprise systems techniques. Enterprise Information Systems, 2013, 7, 354-374.	4.7	17
29	Outcome Prediction in Clinical Treatment Processes. Journal of Medical Systems, 2016, 40, 8.	3.6	17
30	Measure clinical drug–drug similarity using Electronic Medical Records. International Journal of Medical Informatics, 2019, 124, 97-103.	3.3	17
31	RDmap: a map for exploring rare diseases. Orphanet Journal of Rare Diseases, 2021, 16, 101.	2.7	17
32	A meta-model for computer executable dynamic clinical safety checklists. BMC Medical Informatics and Decision Making, 2017, 17, 170.	3.0	16
33	Is the occurrence of pediatric epistaxis related to climatic variables?. International Journal of Pediatric Otorhinolaryngology, 2018, 113, 182-187.	1.0	16
34	Simultaneous Recognition of Atrophic Gastritis and Intestinal Metaplasia on White Light Endoscopic Images Based on Convolutional Neural Networks: A Multicenter Study. Clinical and Translational Gastroenterology, 2021, 12, e00385.	2.5	15
35	Evidential MACE prediction of acute coronary syndrome using electronic health records. BMC Medical Informatics and Decision Making, 2019, 19, 61.	3.0	14
36	An automated data verification approach for improving data quality in a clinical registry. Computer Methods and Programs in Biomedicine, 2019, 181, 104840.	4.7	13

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37	The automatic gridding algorithm based on projection for microvirray image. , 0, , .		11
38	Work pattern of neurology nurses in a Chinese hospital: A time and motion study. Journal of Nursing Management, 2019, 27, 320-329.	3.4	11
39	Content–based gastric image retrieval using convolutional neural networks. International Journal of Imaging Systems and Technology, 2021, 31, 439-449.	4.1	10
40	Cellular Neural Network Based Urinary Image Segmentation. , 2007, , .		9
41	Integrated Visualization of Multi-Modal Electronic Health Record Data. , 2008, , .		9
42	Analyzing conformance to clinical protocols involving advanced synchronizations. , 2013, , .		8
43	Supporting BPMN choreography with system integration artefacts for enterprise process collaboration. Enterprise Information Systems, 2014, 8, 512-529.	4.7	8
44	freeQuant: A Mass Spectrometry Label-Free Quantification Software Tool for Complex Proteome Analysis. Scientific World Journal, The, 2015, 2015, 1-11.	2.1	8
45	PedMap: a pediatric diseases map generated from clinical big data from Hangzhou, China. Scientific Reports, 2019, 9, 17867.	3.3	8
46	Effectiveness of a pathway-driven eHealth-based integrated care model (PEICM) for community-based hypertension management in China: study protocol for a randomized controlled trial. Trials, 2021, 22, 81.	1.6	8
47	Understanding risk factors for postoperative mortality in neonates based on explainable machine learning technology. Journal of Pediatric Surgery, 2021, 56, 2165-2171.	1.6	8
48	A novel deep learning approach to extract Chinese clinical entities for lung cancer screening and staging. BMC Medical Informatics and Decision Making, 2021, 21, 214.	3.0	8
49	A home-based pulmonary rehabilitation mHealth system to enhance the exercise capacity of patients with COPD: development and evaluation. BMC Medical Informatics and Decision Making, 2021, 21, 325.	3.0	8
50	Clinic-Genomic Association Mining for Colorectal Cancer Using Publicly Available Datasets. BioMed Research International, 2014, 2014, 1-10.	1.9	7
51	Mobilizing clinical decision support to facilitate knowledge translation: A case study in China. Computers in Biology and Medicine, 2015, 60, 40-50.	7.0	7
52	Pathway-Driven Coordinated Telehealth System for Management of Patients With Single or Multiple Chronic Diseases in China: System Development and Retrospective Study. JMIR Medical Informatics, 2021, 9, e27228.	2.6	7
53	Combining gene expression signature with clinical features for survival stratification of gastric cancer. Genomics, 2021, 113, 2683-2694.	2.9	7
54	Multi-label recognition of cancer-related lesions with clinical priors on white-light endoscopy. Computers in Biology and Medicine, 2022, 143, 105255.	7.0	7

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55	Level of detail navigation and visualization of electronic health records. , 2010, , .		6
56	A Hybrid Intelligent Diagnosis Approach for Quick Screening of Alzheimer's Disease Based on Multiple Neuropsychological Rating Scales. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-13.	1.3	6
57	An Implementation of Clinical Data Repository with openEHR Approach: From Data Modeling to Architecture. Studies in Health Technology and Informatics, 2016, 227, 100-5.	0.3	6
58	XML-ECG: An XML-Based ECG Presentation for Data Exchanging. , 2007, , .		5
59	Image Processing for Fusion Identification Between the GLUT4 Storage Vesicles and the Plasma Membrane. Journal of Signal Processing Systems, 2009, 54, 115-125.	2.1	5
60	Miniaturized CMOS Imaging Module with Real-time DSP Technology for Endoscope and Laryngoscope Applications. Journal of Signal Processing Systems, 2009, 54, 7-13.	2.1	5
61	Evaluation of clinical impact of pharmacogenomics knowledge involved in CPIC guidelines on Chinese pediatric patients. Pharmacogenomics, 2020, 21, 209-219.	1.3	5
62	A Patient-Screening Tool for Clinical Research Based on Electronic Health Records Using OpenEHR: Development Study. JMIR Medical Informatics, 2021, 9, e33192.	2.6	5
63	Prediction of central venous catheter-associated deep venous thrombosis in pediatric critical care settings. BMC Medical Informatics and Decision Making, 2021, 21, 332.	3.0	5
64	A finite-state automata based negation detection algorithm for Chinese clinical documents. , 2014, , .		4
65	Gastroscopic Image Graph: Application to Noninvasive Multitarget Tracking under Gastroscopy. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-9.	1.3	4
66	Tracebook: A Dynamic Checklist Support System. , 2014, , .		4
67	A non-invasive navigation system for retargeting gastroscopic lesions. Bio-Medical Materials and Engineering, 2014, 24, 2673-2679.	0.6	4
68	A concise drug alerting rule set for Chinese hospitals and its application in computerized physician order entry (CPOE). SpringerPlus, 2016, 5, 2067.	1.2	4
69	Patterns for Patient Engagement with the Hypertension Management and Effects of Electronic Health Care Provider Follow-up on These Patterns: Cluster Analysis. Journal of Medical Internet Research, 2021, 23, e25630.	4.3	4
70	A Computer-Interpretable Guideline for COVID-19: Rapid Development and Dissemination. JMIR Medical Informatics, 2020, 8, e21628.	2.6	4
71	Medical Inpatient Journey Modeling and Clustering: A Bayesian Hidden Markov Model Based Approach. AMIA ... Annual Symposium proceedings, 2015, 2015, 649-58.	0.2	4
72	TCGA4U: A Web-Based Genomic Analysis Platform To Explore And Mine TCGA Genomic Data For Translational Research. Studies in Health Technology and Informatics, 2015, 216, 658-62.	0.3	4

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73	An Act Indexing Information Model for Clinical Data Integration. , 2007, , .		3
74	A Vector-based Filtering Algorithm for Microarray Image. , 2007, , .		3
75	A Term-Mapping Framework for Data Mining in Heterogeneous Medical Data Sources. , 2008, , .		3
76	Integration of IHE-Based Systems with Petri Net Workflow Management System. , 2009, , .		3
77	A compound segmentation algorithm for anterior chamber angle in OCT image. , 2011, , .		3
78	From Healthcare Messaging Standard to Semantic Web Service Description: Generating WSMO Annotation from HL7 with Mapping-Based Approach. , 2013, , .		3
79	An ontology-based real-time monitoring approach to clinical pathway. , 2014, , .		3
80	An integration profile of rule engines for clinical decision support systems. , 2016, , .		3
81	Homographic Patch Feature Transform: A Robustness Registration for Gastroscopic Surgery. PLoS ONE, 2016, 11, e0153202.	2.5	3
82	Exploring and Characterizing Patient Multibehavior Engagement Trails and Patient Behavior Preference Patterns in Pathway-Based mHealth Hypertension Self-Management: Analysis of Use Data. JMIR MHealth and UHealth, 2022, 10, e33189.	3.7	3
83	Representing Rules for Clinical Data Quality Assessment Based on OpenEHR Guideline Definition Language. Studies in Health Technology and Informatics, 2019, 264, 1606-1607.	0.3	3
84	Acute Coronary Syndrome Risk Prediction Based on GRACE Risk Score. Studies in Health Technology and Informatics, 2017, 245, 398-402.	0.3	3
85	A Hybrid Method for ICD-10 Auto-Coding of Chinese Diagnoses. Studies in Health Technology and Informatics, 2017, 245, 427-431.	0.3	3
86	Radiology workflow-based monitoring dashboard in a heterogeneous environment. , 2010, , .		2
87	Enhancing interoperability of ECG machine to support ECG telediagnosis service. , 2011, , .		2
88	Variance analysis in Task-Time matrix clinical pathways. , 2017, , .		2
89	Application of openEHR archetypes to automate data quality rules for electronic health records: a case study. BMC Medical Informatics and Decision Making, 2021, 21, 113.	3.0	2
90	Using Z-score to optimize population-specific DDH screening: a retrospective study in Hangzhou, China. BMC Musculoskeletal Disorders, 2021, 22, 344.	1.9	2

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91	Automatic RadLex coding of Chinese structured radiology reports based on text similarity ensemble. BMC Medical Informatics and Decision Making, 2021, 21, 247.	3.0	2
92	Building an information system to facilitate pharmacogenomics clinical translation with clinical decision support. Pharmacogenomics, 2022, 23, 35-48.	1.3	2
93	A Visual Phenotype-Based Differential Diagnosis Process for Rare Diseases. Interdisciplinary Sciences, Computational Life Sciences, 2022, 14, 331-348.	3.6	2
94	Automatic SNOMED CT coding of Chinese clinical terms via attention-based semantic matching. International Journal of Medical Informatics, 2022, 159, 104676.	3.3	2
95	Case Study: Applying OpenEHR Archetypes to a Clinical Data Repository in a Chinese Hospital. Studies in Health Technology and Informatics, 2015, 216, 207-11.	0.3	2
96	Risk factors for central venous catheter-associated deep venous thrombosis in pediatric critical care settings identified by fusion model. Thrombosis Journal, 2022, 20, 18.	2.1	2
97	Renal Biopsy Recommendation Based on Text Understanding. Studies in Health Technology and Informatics, 2019, 264, 689-693.	0.3	2
98	Identify Facilitators and Challenges in Computerized Checklist Implementation. Studies in Health Technology and Informatics, 2019, 264, 1737-1738.	0.3	2
99	A general-purpose representation of biosignal data based on MFER and CDA. , 2010, , .		1
100	A RFID-based tracking system of endoscopes. , 2011, , .		1
101	A problem-snapshot view of patient history data for cardiac preoperative evaluation. , 2011, , .		1
102	A clinical omics database integrating epidemiology, clinical, and omics data for colorectal cancer translational research. , 2011, , .		1
103	Constructing clinical pathway ontology to incorporate patient state, intervention and time. , 2011, , .		1
104	An optimized framework for integrated visualization of distributed medical images. , 2012, , .		1
105	A high-throughput gene sequence alignment strategy using parallel computing. , 2014, , .		1
106	Reply to Kim et al.. European Journal of Cardio-thoracic Surgery, 2020, 58, 400-401.	1.4	1
107	A computational method to quantitatively measure pediatric drug safety using electronic medical records. BMC Medical Research Methodology, 2020, 20, 9.	3.1	1
108	CT-Video Matching for Retrograde Intrarenal Surgery Based on Depth Prediction and Style Transfer. Applied Sciences (Switzerland), 2021, 11, 9585.	2.5	1

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109	A configurable method for clinical quality measurement through electronic health records based on openEHR and CQL. BMC Medical Informatics and Decision Making, 2022, 22, 37.	3.0	1
110	Real-Time Multi-Label Upper Gastrointestinal Anatomy Recognition from Gastroscope Videos. Applied Sciences (Switzerland), 2022, 12, 3306.	2.5	1
111	Using openEHR's Guideline Definition Language for Representing Percutaneous Coronary Intervention Patient Safety Rules in a Dynamic Checklist System. Studies in Health Technology and Informatics, 2019, 264, 1714-1715.	0.3	1
112	Notice of Retraction: ECG Beat Classification Based on Mirrored Gauss Model and Cluster Template. , 2007, , .		0
113	DICOM Validation Sets: A DICOM Test Case Preparation Method for System Integration in Radiology. , 2007, , .		0
114	The Innovative Practice System of BME Program at Zhejiang University. , 2009, , .		0
115	ECG Information System based on AHA/ACC/HRS electrocardiography diagnostic statement list. , 2011, , .		0
116	Heterogeneous Patient Information Acquisition and Normalization for Shareable, Executable Clinical Decision Support System. , 2011, , .		0
117	A patient-centered tumor tissue information management system. , 2014, , .		0
118	Quantitative measurement of clinic-genomic association for colorectal cancer using literature mining and Google-distance algorithm. , 2014, , .		0
119	Computer-Simulated Biopsy Marking System for Endoscopic Surveillance of Gastric Lesions: A Pilot Study. BioMed Research International, 2015, 2015, 1-5.	1.9	0
120	Lexical Characteristics Analysis of Chinese Clinical Documents. , 2015, , .		0
121	Heating simulations of pulsed high-intensity focused ultrasound in the presence of heterogeneous tissue. AIP Conference Proceedings, 2017, , .	0.4	0
122	On accurate, automated and insightful deviation analysis of clinical protocols. , 2018, , .		0
123	Can Existing Guideline Languages Meet the Requirements of Computerized Checklist Systems?. , 2018, , .		0
124	Development and evaluation of task-specific NLP framework in China. Studies in Health Technology and Informatics, 2015, 216, 1031.	0.3	0
125	Detecting Adverse Drug Event Signals from a Clinical CaseBase. Studies in Health Technology and Informatics, 2017, 245, 549-553.	0.3	0
126	Research on predicting velocity-time integral of shunt How using time-frequency features of heart sound with correlation. , 2021, , .		0