

Fei-Pei Lai

List of Publications by Year in descending order

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Version: 2024-02-01

148
papers

1,552
citations

393982

19
h-index

476904

29
g-index

168
all docs

168
docs citations

168
times ranked

1902
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of multiple deep learning models for automatic burn wound assessment. <i>Burns</i> , 2023, 49, 1039-1051.	1.1	6
2	Clinical characteristics of influenza with or without <i>Streptococcus pneumoniae</i> co-infection in children. <i>Journal of the Formosan Medical Association</i> , 2022, 121, 950-957.	0.8	7
3	RSV pneumonia with or without bacterial co-infection among healthy children. <i>Journal of the Formosan Medical Association</i> , 2022, 121, 687-693.	0.8	17
4	Lagrange interpolation-driven access control mechanism: Towards secure and privacy-preserving fusion of personal health records. <i>Knowledge-Based Systems</i> , 2022, 236, 107679.	4.0	6
5	Panic Attack Prediction Using Wearable Devices and Machine Learning: Development and Cohort Study. <i>JMIR Medical Informatics</i> , 2022, 10, e33063.	1.3	18
6	Clinical characteristics of recurrent pneumonia in children with or without underlying diseases. <i>Journal of the Formosan Medical Association</i> , 2022, 121, 1073-1080.	0.8	2
7	Evaluation of the Need for Intensive Care in Children With Pneumonia: Machine Learning Approach. <i>JMIR Medical Informatics</i> , 2022, 10, e28934.	1.3	4
8	Comparison of GATK and DeepVariant by trio sequencing. <i>Scientific Reports</i> , 2022, 12, 1809.	1.6	26
9	The Prevalence and Impact of Fake News on COVID-19 Vaccination in Taiwan: Retrospective Study of Digital Media. <i>Journal of Medical Internet Research</i> , 2022, 24, e36830.	2.1	17
10	Using Text Content From Coronary Catheterization Reports to Predict 5-Year Mortality Among Patients Undergoing Coronary Angiography: A Deep Learning Approach. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 800864.	1.1	2
11	Deep learning approach based on superpixel segmentation assisted labeling for automatic pressure ulcer diagnosis. <i>PLoS ONE</i> , 2022, 17, e0264139.	1.1	16
12	The association of anemia with the clinical outcomes of community-acquired pneumonia in children. <i>Pediatric Pulmonology</i> , 2022, , .	1.0	0
13	Mobile time banking on blockchain system development for community elderly care. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2022, , 1-13.	3.3	1
14	The necessity of abdominal drainage for patients with complicated appendicitis undergoing laparoscopic appendectomy: a retrospective cohort study. <i>World Journal of Emergency Surgery</i> , 2022, 17, 16.	2.1	8
15	A pressure ulcers assessment system for diagnosis and decision making using convolutional neural networks. <i>Journal of the Formosan Medical Association</i> , 2022, 121, 2227-2236.	0.8	12
16	Predicting Postoperative Mortality With Deep Neural Networks and Natural Language Processing: Model Development and Validation. <i>JMIR Medical Informatics</i> , 2022, 10, e38241.	1.3	8
17	Automatic International Classification of Diseases Coding System: Deep Contextualized Language Model With Rule-Based Approaches. <i>JMIR Medical Informatics</i> , 2022, 10, e37557.	1.3	4
18	Disease Concept-Embedding Based on the Self-Supervised Method for Medical Information Extraction from Electronic Health Records and Disease Retrieval: Algorithm Development and Validation Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e25113.	2.1	14

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19	CT-Based Collision Prediction Software for External-Beam Radiation Therapy. <i>Frontiers in Oncology</i> , 2021, 11, 617007.	1.3	2
20	Acute Exacerbation of a Chronic Obstructive Pulmonary Disease Prediction System Using Wearable Device Data, Machine Learning, and Deep Learning: Development and Cohort Study. <i>JMIR MHealth and UHealth</i> , 2021, 9, e22591.	1.8	53
21	Benchmarking of eight recurrent neural network variants for breath phase and adventitious sound detection on a self-developed open-access lung sound databaseâ€”HF_Lung_V1. <i>PLoS ONE</i> , 2021, 16, e0254134.	1.1	35
22	Artificial Intelligenceâ€”Assisted Early Detection of Retinitis Pigmentosa â€” the Most Common Inherited Retinal Degeneration. <i>Journal of Digital Imaging</i> , 2021, 34, 948-958.	1.6	12
23	Automatic ICD-10 Coding and Training System: Deep Neural Network Based on Supervised Learning. <i>JMIR Medical Informatics</i> , 2021, 9, e23230.	1.3	26
24	The intracranial tumor segmentation challenge: Contour tumors on brain MRI for radiosurgery. <i>NeuroImage</i> , 2021, 244, 118585.	2.1	6
25	Deep Learning-Based Segmentation of Various Brain Lesions for Radiosurgery. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9180.	1.3	6
26	Deep Learningâ€”Assisted Burn Wound Diagnosis: Diagnostic Model Development Study. <i>JMIR Medical Informatics</i> , 2021, 9, e22798.	1.3	6
27	Physician decision support system for idiopathic sudden sensorineural hearing loss patients. <i>Journal of the Chinese Medical Association</i> , 2021, 84, 101-107.	0.6	5
28	Surgical Wounds Assessment System for Self-Care. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020, 50, 5076-5091.	5.9	9
29	Applying time-constraint access control of personal health record in cloud computing. <i>Enterprise Information Systems</i> , 2020, 14, 266-281.	3.3	7
30	Mobile Social Service User Identification Framework Based on Action-Characteristic Data Retention. <i>IEEE Access</i> , 2020, 8, 127748-127767.	2.6	0
31	A Unified Framework for Automatic Detection of Wound Infection with Artificial Intelligence. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5353.	1.3	16
32	Frequency and spectrum of actionable pathogenic secondary findings in Taiwanese exomes. <i>Molecular Genetics & Genomic Medicine</i> , 2020, 8, e1455.	0.6	14
33	A nomogram for estimating intracranial pressure using acute subdural hematoma thickness and midline shift. <i>Scientific Reports</i> , 2020, 10, 21787.	1.6	2
34	Impact of tobacco-related chronic obstructive pulmonary disease on developmental trajectories of comorbidities in the Taiwan population. <i>Scientific Reports</i> , 2020, 10, 21025.	1.6	3
35	Characteristics of Harmonic Indexes of the Arterial Blood Pressure Waveform in Type 2 Diabetes Mellitus. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 638.	2.0	6
36	Support vector machine prediction of obstructive sleep apnea in a large-scale Chinese clinical sample. <i>Sleep</i> , 2020, 43, .	0.6	29

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37	Modified Bidirectional Encoder Representations From Transformers Extractive Summarization Model for Hospital Information Systems Based on Character-Level Tokens (AlphaBERT): Development and Performance Evaluation. JMIR Medical Informatics, 2020, 8, e17787.	1.3	17
38	A Smartphone-Based Approach to Screening for Sudden Sensorineural Hearing Loss: Cross-Sectional Validity Study. JMIR MHealth and UHealth, 2020, 8, e23047.	1.8	13
39	Threat Analysis for Wearable Health Devices and Environment Monitoring Internet of Things Integration System. IEEE Access, 2019, 7, 144983-144994.	2.6	19
40	Chronic wound assessment and infection detection method. BMC Medical Informatics and Decision Making, 2019, 19, 99.	1.5	26
41	Brain Tumor Segmentation Using U-Net and Edge Contour Enhancement. , 2019, , .		4
42	Using a smartwatch with real-time feedback improves the delivery of high-quality cardiopulmonary resuscitation by healthcare professionals. Resuscitation, 2019, 140, 16-22.	1.3	29
43	Metformin use mitigates the adverse prognostic effect of diabetes mellitus in chronic obstructive pulmonary disease. Respiratory Research, 2019, 20, 69.	1.4	47
44	Critical Trio Exome Benefits In-Time Decision-Making for Pediatric Patients With Severe Illnesses*. Pediatric Critical Care Medicine, 2019, 20, 1021-1026.	0.2	29
45	Wearable-Based Mobile Health App in Gastric Cancer Patients for Postoperative Physical Activity Monitoring: Focus Group Study. JMIR MHealth and UHealth, 2019, 7, e11989.	1.8	28
46	A Mobile Phone-Based Approach for Hearing Screening of School-Age Children: Cross-Sectional Validation Study. JMIR MHealth and UHealth, 2019, 7, e12033.	1.8	26
47	A Web-Based Clinical System for Cohort Surveillance of Specific Clinical Effectiveness and Safety Outcomes: A Cohort Study of Non-Vitamin K Antagonist Oral Anticoagulants and Warfarin. JMIR Medical Informatics, 2019, 7, e13329.	1.3	1
48	Visualization and Sonification of Long-Term Epilepsy Electroencephalogram Monitoring. Journal of Medical and Biological Engineering, 2018, 38, 943-952.	1.0	10
49	An Implementation of Interactive Healthy Eating Index and Healthcare System on Mobile Platform in College Student Samples. IEEE Access, 2018, 6, 71651-71661.	2.6	7
50	Validity of ICD9-CM codes to diagnose chronic obstructive pulmonary disease from National Health Insurance claim data in Taiwan. International Journal of COPD, 2018, Volume 13, 3055-3063.	0.9	47
51	A novel depth estimation algorithm of chest compression for feedback of high-quality cardiopulmonary resuscitation based on a smartwatch. Journal of Biomedical Informatics, 2018, 87, 60-65.	2.5	18
52	A Comprehensive Overview of Government Hacking Worldwide. IEEE Access, 2018, 6, 55053-55073.	2.6	1
53	Preoperative biliary drainage associated with biliary stricture after pancreaticoduodenectomy: a population-based study. Journal of Hepato-Biliary-Pancreatic Sciences, 2018, 25, 308-318.	1.4	9
54	Identifying Unmet Treatment Needs for Patients With Osteoporotic Fracture: Feasibility Study for an Electronic Clinical Surveillance System. Journal of Medical Internet Research, 2018, 20, e142.	2.1	5

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55	GA-SVM modeling of multiclass seizure detector in epilepsy analysis system using cloud computing. <i>Soft Computing</i> , 2017, 21, 2139-2149.	2.1	9
56	Smart computing mechanism for noise detection and elimination in ECG signal. , 2017, , .		1
57	Diabetes mellitus in patients with chronic obstructive pulmonary disease-The impact on mortality. <i>PLoS ONE</i> , 2017, 12, e0175794.	1.1	47
58	Confidentiality Protection of Digital Health Records in Cloud Computing. <i>Journal of Medical Systems</i> , 2016, 40, 124.	2.2	33
59	Effectiveness of Telemonitoring in Patients with Chronic Obstructive Pulmonary Disease in Taiwan-A Randomized Controlled Trial. <i>Scientific Reports</i> , 2016, 6, 23797.	1.6	56
60	Insider Collusion Attack on Privacy-Preserving Kernel-Based Data Mining Systems. <i>IEEE Access</i> , 2016, 4, 2244-2255.	2.6	10
61	Total gastrectomy improves glucose metabolism on gastric cancer patients: a nationwide population-based study. <i>Surgery for Obesity and Related Diseases</i> , 2016, 12, 635-641.	1.0	14
62	Robust dermatological wound image segmentation in clinical photos. , 2015, , .		3
63	High-Performance Multiclass Classification Framework Using Cloud Computing Architecture. <i>Journal of Medical and Biological Engineering</i> , 2015, 35, 795-802.	1.0	2
64	Characteristics of 5-year surveillance system with synchronous telehealthcare in Taiwan. , 2015, , .		0
65	Tablet PC-enabled application intervention for patients with gastric cancer undergoing gastrectomy. <i>Computer Methods and Programs in Biomedicine</i> , 2015, 119, 101-109.	2.6	22
66	A cross-hospital cost and quality assessment system by extracting frequent physician order set from a nationwide Health Insurance Research Database. <i>Computer Methods and Programs in Biomedicine</i> , 2015, 120, 142-153.	2.6	3
67	Improvement of heart rate variability after decreased insulin resistance after sleeve gastrectomy for morbidly obesity patients. <i>Surgery for Obesity and Related Diseases</i> , 2015, 11, 557-563.	1.0	18
68	A Web-Based, Hospital-Wide Health Care-Associated Bloodstream Infection Surveillance and Classification System: Development and Evaluation. <i>JMIR Medical Informatics</i> , 2015, 3, e31.	1.3	12
69	A Telesurveillance System With Automatic Electrocardiogram Interpretation Based on Support Vector Machine and Rule-Based Processing. <i>JMIR Medical Informatics</i> , 2015, 3, e21.	1.3	14
70	CloudDOE: A User-Friendly Tool for Deploying Hadoop Clouds and Analyzing High-Throughput Sequencing Data with MapReduce. <i>PLoS ONE</i> , 2014, 9, e98146.	1.1	24
71	A clinical decision and support system with automatically ECG classification in telehealthcare. , 2014, , .		2
72	Processing and analysis of imbalanced liver cancer patient data by case-based reasoning. , 2014, , .		0

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73	In-Hospital and One-Year Mortality and Their Predictors in Patients Hospitalized for First-Ever Chronic Obstructive Pulmonary Disease Exacerbations: A Nationwide Population-Based Study. PLoS ONE, 2014, 9, e114866.	1.1	79
74	CHT cloud orchestration: An integrated cloud system of virtualization platform. , 2014, , .		1
75	Recurrence predictive models for patients with hepatocellular carcinoma after radiofrequency ablation using support vector machines with feature selection methods. Computer Methods and Programs in Biomedicine, 2014, 117, 425-434.	2.6	36
76	Improving inpatient fall prevention strategies using interactive data repository information system. Studies in Health Technology and Informatics, 2014, 201, 87-93.	0.2	1
77	FinancialCloud: Open Cloud Framework of Derivative Pricing. , 2013, , .		5
78	Ultra-fast Epileptic seizure detection using EMD based on multichannel electroencephalogram. , 2013, , .		7
79	A web-based telehealthcare system with mobile application and data analysis for diet people. , 2013, , .		1
80	An accurate power analysis model based on MAC layer for the DCF of 802.11n. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2013, 36, 17-26.	0.6	1
81	Web-Based Newborn Screening System for Metabolic Diseases: Machine Learning Versus Clinicians. Journal of Medical Internet Research, 2013, 15, e98.	2.1	19
82	A Fast Power Estimation Method for Content Addressable Memory by Using SystemC Simulation Environment. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 1723-1729.	0.2	0
83	A Web-based Medical Emergency Guiding System. , 2012, , .		2
84	E-Health and Healthcare Enterprise Information System Leveraging Service-Oriented Architecture. Telemedicine Journal and E-Health, 2012, 18, 205-212.	1.6	30
85	Newborn Screening for Phenylketonuria: Machine Learning vs Clinicians. , 2012, , .		1
86	The development of a real-time valuation service of financial derivatives. , 2012, , .		2
87	A Multiclass Classification Tool Using Cloud Computing Architecture. , 2012, , .		4
88	Continuous, personalized healthcare integrated platform. , 2012, , .		4
89	A Web-Based Multidrug-Resistant Organisms Surveillance and Outbreak Detection System with Rule-Based Classification and Clustering. Journal of Medical Internet Research, 2012, 14, e131.	2.1	10
90	An early design estimation approach to synthesize the low-power pre-computation-based content addressable memory. , 2011, , .		0

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91	Ubiquitous mobile personal health system based on cloud computing. , 2011, , .		5
92	Mobile nursing cart with software defined radio for healthcare enterprises. , 2011, , .		0
93	A secure electronic medical record sharing mechanism in the cloud computing platform. , 2011, , .		41
94	Epileptic Seizure Detection for Multichannel EEG Signals with Support Vector Machines. , 2011, , .		21
95	A priority based output arbiter for NoC router. , 2011, , .		9
96	Star-type architecture with low transmission latency for a 2D mesh NOC. , 2010, , .		10
97	Design of low latency on-chip communication based on hybrid NoC architecture. , 2010, , .		13
98	Discharge summary note based on service-oriented architecture. , 2010, , .		0
99	A web-based hospital-acquired infection surveillance information system. , 2010, , .		2
100	Distinguishable error detection method for Network on Chip. , 2010, , .		0
101	CAM puzzle: A power model and function-based circuit segment method of Content Addressable Memory. , 2010, , .		3
102	Leukemia cancer classification based on Support Vector Machine. , 2010, , .		8
103	A Newborn Screening System Based on Service-Oriented Architecture Embedded Support Vector Machine. , 2008, , .		1
104	Design and Analysis of Enhanced Grouping DCF Scheme for the MAC Layer Enhancement of 802.11n with Ultra-high Data Rate. , 2007, , .		9
105	A Preliminary Study of Medical Image Distributed Intelligent Access Integrated with Electronic Medical Records System for Brain Degenerative Disease. , 2007, , .		0
106	Design and Enhance a Dynamic Healthcare Portal Site. , 2007, , .		6
107	Middleware based Inpatient Healthcare Information System. , 2007, , .		23
108	Design and Enhance a Dynamic Healthcare Portal Site. , 2007, , .		0

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109	Mobile health information system integrated with voip technology in a wireless hospital. , 2006, , .		2
110	A Healthcare Pattern Collection for Rural Telemedicine Services. , 2006, , .		0
111	Threshold Signature Scheme Resistible for Conspiracy Attack. , 2006, , .		2
112	Location-aware healthcare in u-hospitals. , 2006, , .		0
113	A Functional Link Network With Higher Order Statistics for Signal Enhancement. IEEE Transactions on Signal Processing, 2006, 54, 4821-4826.	3.2	13
114	WLC34-5: GDCF: Grouping DCF for the MAC layer enhancement of 802.11. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	1
115	Efficient Group Key Management Protocol with One-Way Key Derivation. , 2005, , .		20
116	Zero-aware asymmetric SRAM cell for reducing cache power in writing zero. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2004, 12, 827-836.	2.1	51
117	Design and analysis of low-power cache using two-level filter scheme. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2003, 11, 568-580.	2.1	22
118	An implementation of public key cryptosystem TTM with linear time complexity for decryption. , 2003, , .		1
119	A bipartition-codec architecture to reduce power in pipelined circuits. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2001, 20, 343-348.	1.9	6
120	FACE: Fine-tuned Architecture Codesign Environment for ASIP Development. Design Automation for Embedded Systems, 1999, 4, 329-351.	0.7	2
121	Requirements specification and analysis of digital systems using fuzzy and marked Petri nets. IEEE Transactions on Systems, Man, and Cybernetics, 1998, 28, 748-754.	5.5	8
122	Efficient exploitation of instruction-level parallelism for superscalar processors by the conjugate register file scheme. IEEE Transactions on Computers, 1996, 45, 278-293.	2.4	5
123	The complementary relationship of interprocedural register allocation and inlining. International Journal of Parallel Programming, 1994, 22, 409-434.	1.1	3
124	A superscalar microâ€œarchitecture supporting aggressive instruction scheduling. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 1994, 17, 151-167.	0.6	0
125	Intelligent stock trading system with price trend prediction and reversal recognition using dual-module neural networks. Applied Intelligence, 1993, 3, 225-248.	3.3	20
126	A BIST ram architecture with parallel testing in a microprogram rom. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 1993, 16, 685-690.	0.6	0

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127	Exploiting Instruction-level Parallelism With The Conjugate Register File Scheme. , 0, , .		1
128	Reducing procedure call overhead: optimizing register usage at procedure calls. , 0, , .		2
129	A simple tree pattern matching algorithm for code generator. , 0, , .		2
130	Adsmith: an efficient object-based distributed shared memory system on PVM. , 0, , .		4
131	Fast block motion estimation using adaptive simulated annealing. , 0, , .		1
132	Unified fully-pipelined VLSI implementations of two-dimensional discrete trigonometric transforms. , 0, , .		1
133	Hybrid parallel circuit simulation approaches. , 0, , .		0
134	Synthesis of partition-codec architecture for low power and small area circuit design. , 0, , .		0
135	An entropy-based algorithm to reduce area overhead for bipartition-codec architecture. , 0, , .		1
136	A constant size rekeying message framework for secure multicasting. , 0, , .		2
137	Cache design for eliminating the address translation bottleneck and reducing the tag area cost. , 0, , .		1
138	A distributed key management protocol for dynamic groups. , 0, , .		0
139	E-Vanguard for Emergency - a wireless system for rescue and healthcare. , 0, , .		2
140	Designing platform-based system power management on a smart tablet appliance. , 0, , .		3
141	A design of small-area automatic wheelchair. , 0, , .		4
142	Optimizing centralized secure group communications with binary key tree recomposition. , 0, , .		1
143	A Web Redirection Service for Variant Chinese Domain Name Resolution. , 0, , .		0
144	Mobile health information system integrated with voip technology in a wireless hospital. , 0, , .		0

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145	Location-aware healthcare in u-hospitals. , 0, , .		0
146	A Healthcare Pattern Collection for Rural Telemedicine Services. , 0, , .		0
147	DNA mixture interpretation using linear regression and neural networks on massively parallel sequencing data of single nucleotide polymorphisms. Australian Journal of Forensic Sciences, 0, , 1-13.	0.7	2
148	An effective output-oriented algorithm for low power multipartition architecture. , 0, , .		4