Mengling Feng

List of Publications by Year
in descending order

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Version: 2024-02-01

		361413	144013
67	5,507	20	57
papers	citations	h-index	g-index

69	69	69	5735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MIMIC-III, a freely accessible critical care database. Scientific Data, 2016, 3, 160035.	5.3	4,097
2	Transthoracic echocardiography and mortality in sepsis: analysis of the MIMIC-III database. Intensive Care Medicine, 2018, 44, 884-892.	8.2	145
3	Peripheral Edema, Central Venous Pressure, and Risk of AKI in Critical Illness. Clinical Journal of the American Society of Nephrology: CJASN, 2016, 11, 602-608.	4.5	119
4	Obesity, Acute Kidney Injury, and Mortality in Critical Illness. Critical Care Medicine, 2016, 44, 328-334.	0.9	116
5	The Search for Optimal Oxygen Saturation Targets in Critically Ill Patients. Chest, 2020, 157, 566-573.	0.8	80
6	Reinforcement Learning for Clinical Decision Support in Critical Care: Comprehensive Review. Journal of Medical Internet Research, 2020, 22, e18477.	4.3	77
7	Making Big Data Useful for Health Care: A Summary of the Inaugural MIT Critical Data Conference. JMIR Medical Informatics, 2014, 2, e22.	2.6	70
8	Federated learning: a collaborative effort to achieve better medical imaging models for individual sites that have small labelled datasets. Quantitative Imaging in Medicine and Surgery, 2021, 11, 852-857.	2.0	64
9	Hyperdynamic left ventricular ejection fraction in the intensive care unit. Critical Care, 2015, 19, 288.	5.8	61
10	A â€œdatathonâ€•model to support cross-disciplinary collaboration. Science Translational Medicine, 2016, 8, 333ps8.	12.4	55
11	Deep learning for temporal data representation in electronic health records: A systematic review of challenges and methodologies. Journal of Biomedical Informatics, 2022, 126, 103980.	4.3	40
12	Understanding vasopressor intervention and weaning: risk prediction in a public heterogeneous clinical time series database. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, 488-495.	4.4	33
13	Hypotension Risk Prediction via Sequential Contrast Patterns of ICU Blood Pressure. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1416-1426.	6.3	31
14	Federated Learning for Electronic Health Records. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-17.	4.5	27
15	The effect of age and clinical circumstances on the outcome of red blood cell transfusion in critically ill patients. Critical Care, 2014, 18, 487.	5.8	25
16	The Association Between Indwelling Arterial Catheters and Mortality in Hemodynamically Stable Patients With Respiratory Failure. Chest, 2015, 148, 1470-1476.	0.8	24
17	Quantifying the Mortality Impact of Do-Not-Resuscitate Orders in the ICU*. Critical Care Medicine, 2017, 45, 1019-1027.	0.9	24
18	Identification of 27 abnormalities from multi-lead ECG signals: an ensembled SE_ResNet framework with Sign Loss function. Physiological Measurement, 2021, 42, 065008.	2.1	23

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19	Assessment of Intensive Care Unit Laboratory Values That Differ From Reference Ranges and Association With Patient Mortality and Length of Stay. JAMA Network Open, 2018, 1, e184521.	5.9	21
20	Interpretable and Lightweight 3-D Deep Learning Model for Automated ACL Diagnosis. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2388-2397.	6.3	21
21	Robust Nonlinear Causality Analysis of Nonstationary Multivariate Physiological Time Series. IEEE Transactions on Biomedical Engineering, 2018, 65, 1213-1225.	4.2	20
22	Deep Learning Systems for Pneumothorax Detection on Chest Radiographs: A Multicenter External Validation Study. Radiology: Artificial Intelligence, 2021, 3, e200190.	5.8	20
23	The impact of high frequency oscillatory ventilation on mortality in paediatric acute respiratory distress syndrome. Critical Care, 2020, 24, 31.	5.8	19
24	Increased incidence of diuretic use in critically ill obese patients. Journal of Critical Care, 2015, 30, 619-623.	2.2	18
25	The Effect of ARDS on Survival: Do Patients Die From ARDS or With ARDS?. Journal of Intensive Care Medicine, 2019, 34, 374-382.	2.8	18
26	Machine Learningâ€“Derived Prenatal Predictive Risk Model to Guide Intervention and Prevent the Progression of Gestational Diabetes Mellitus to Type 2 Diabetes: Prediction Model Development Study. JMIR Diabetes, 2022, 7, e32366.	1.9	15
27	Sodium modelling to reduce intradialytic hypotension during haemodialysis for acute kidney injury in the intensive care unit. Nephrology, 2016, 21, 870-877.	1.6	13
28	Admission Peripheral Edema, Central Venous Pressure, and Survival in Critically Ill Patients. Annals of the American Thoracic Society, 2016, 13, 705-711.	3.2	13
29	One-year mortality after recovery from critical illness: A retrospective cohort study. PLoS ONE, 2018, 13, e0197226.	2.5	13
30	Transformation of Electronic Health Records and Questionnaire Data to OMOP CDM: A Feasibility Study Using SG_T2DM Dataset. Applied Clinical Informatics, 2021, 12, 757-767.	1.7	13
31	Systematic review on the definition and predictors of severe Clostridiodes difficile infection. Journal of Gastroenterology and Hepatology (Australia), 2021, 36, 89-104.	2.8	12
32	Derivation of Outcome-Based Pediatric Critical Values. American Journal of Clinical Pathology, 2018, 149, 324-331.	0.7	10
33	Characterising and predicting persistent high-cost utilisers in healthcare: a retrospective cohort study in Singapore. BMJ Open, 2020, 10, e031622.	1.9	10
34	The effects of deep network topology on mortality prediction. , 2016, 2016, 2602-2605.		9
35	Automated Segmentation of Visceral, Deep Subcutaneous, and Superficial Subcutaneous Adipose Tissue Volumes in MRI of Neonates and Young Children. Radiology: Artificial Intelligence, 2021, 3, e200304.	5.8	9
36	Analysis of Dual Combination Therapies Used in Treatment of Hypertension in a Multinational Cohort. JAMA Network Open, 2022, 5, e223877.	5.9	9

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37	Multi-signal Visualization of Physiology (MVP): A novel visualization dashboard for physiological monitoring of Traumatic Brain Injury patients. , 2012, 2012, 2000-3.		8
38	Effect of Training Data Volume on Performance of Convolutional Neural Network Pneumothorax Classifiers. Journal of Digital Imaging, 2022, 35, 881-892.	2.9	8
39	Novel SNP improves differential survivability and mortality in non-small cell lung cancer patients. BMC Genomics, 2014, 15, S20.	2.8	7
40	Proton pump inhibitor use is not associated with cardiac arrhythmia in critically ill patients. Journal of Clinical Pharmacology, 2015, 55, 774-779.	2.0	7
41	A New Model for Risk Stratification of Patients With Acute Pulmonary Embolism. Clinical and Applied Thrombosis/Hemostasis, 2018, 24, 277S-284S.	1.7	7
42	Todayâ€™s radiologists meet tomorrowâ€™s AI: the promises, pitfalls, and unbridled potential. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2775-2779.	2.0	7
43	Detection of Pneumothorax with Deep Learning Models: Learning From Radiologist Labels vs Natural Language Processing Model Generated Labels. Academic Radiology, 2022, 29, 1350-1358.	2.5	7
44	Leveraging open data to reconstruct the Singapore Housing Index and other building-level markers of socioeconomic status for health services research. International Journal for Equity in Health, 2021, 20, 218.	3.5	7
45	Population-centric risk prediction modeling for gestational diabetes mellitus: A machine learning approach. Diabetes Research and Clinical Practice, 2022, 185, 109237.	2.8	7
46	A Clustering-Based Optimization Method for the Driving Cycle Construction: A Case Study in Fuzhou and Putian, China. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18681-18694.	8.0	7
47	Automated Machine Learning (AutoML)-Derived Preconception Predictive Risk Model to Guide Early Intervention for Gestational Diabetes Mellitus. International Journal of Environmental Research and Public Health, 2022, 19, 6792.	2.6	7
48	Outcome Prediction for Patients with Traumatic Brain Injury with Dynamic Features from Intracranial Pressure and Arterial Blood Pressure Signals: A Gaussian Process Approach. Acta Neurochirurgica Supplementum, 2016, 122, 85-91.	1.0	6
49	A Deep Reinforcement Learning Approach for Type 2 Diabetes Mellitus Treatment. , 2020, , .		6
50	An online approach for intracranial pressure forecasting based on signal decomposition and robust statistics. , 2013, , .		5
51	Association of hypokalemia with an increased risk for medically treated arrhythmias. PLoS ONE, 2019, 14, e0217432.	2.5	4
52	Healthcare Transformation in Singapore With Artificial Intelligence. Frontiers in Digital Health, 2020, 2, 592121.	2.8	4
53	Association of fluid balance with mortality in sepsis is modified by admission hemoglobin levels: A large database study. PLoS ONE, 2021, 16, e0252629.	2.5	4
54	Self-Correcting Recurrent Neural Network for Acute Kidney Injury Prediction in Critical Care. Health Data Science, 2021, 2021, .	2.3	4

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55	Supporting Exploratory Hypothesis Testing and Analysis. ACM Transactions on Knowledge Discovery From Data, 2015, 9, 1-24.	3.5	3
56	A Weakly-Supervised Named Entity Recognition Machine Learning Approach for Emergency Medical Services Clinical Audit. International Journal of Environmental Research and Public Health, 2021, 18, 7776.	2.6	3
57	Understanding Deep Convolutional Networks for Biomedical Imaging: A Practical Tutorial. , 2019, 2019, 857-863.		2
58	Prediction of in-hospital mortality of Clostriodiodes difficile infection using critical care database: a big data-driven, machine learning approach. BMJ Open Gastroenterology, 2021, 8, e000761.	2.7	2
59	End-to-End Calcification Distribution Pattern Recognition for Mammograms: An Interpretable Approach with GNN. Diagnostics, 2022, 12, 1376.	2.6	2
60	Continuous ECG Monitoring Trial for Outpatient â€“ Patient Receptiveness and Signal Accuracy. , 2019, 2019, 1144-1148.		1
61	Timing of tracheal intubation on mortality and duration of mechanical ventilation in critically ill children: A propensity score analysis. Pediatric Pulmonology, 2020, 55, 3126-3133.	2.0	1
62	Adversarial Domain Adaptation with Correlation-Based Association Networks for Longitudinal Disk Fault Prediction. , 2021, , .		1
63	Serial Heart Rate Variability Measures for Risk Prediction of Septic Patients in the Emergency Department. AMIA ... Annual Symposium proceedings, 2019, 2019, 285-294.	0.2	1
64	Management and analytic of biomedical big data with cloud-based in-memory database and dynamic querying. , 2014, , .		0
65	1199. Critical Care Medicine, 2019, 47, 576.	0.9	0
66	Response. Chest, 2020, 158, 1287-1288.	0.8	0
67	Disk Failure Prediction: An In-Depth Comparison Between Deep Neural Networks and Tree-Based Models. Communications in Computer and Information Science, 2020, , 51-63.	0.5	0