

Joon Lee

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

3,283
citations

185998

28
h-index

161609

54
g-index

102
all docs

102
docs citations

102
times ranked

4435
citing authors

#	ARTICLE	IF	CITATIONS
1	Outcome of critically ill patients with acute kidney injury using the Acute Kidney Injury Network criteria*. Critical Care Medicine, 2011, 39, 2659-2664.	0.4	692
2	Smart Devices for Older Adults Managing Chronic Disease: A Scoping Review. JMIR MHealth and UHealth, 2017, 5, e69.	1.8	167
3	Proton-pump inhibitor use is associated with low serum magnesium concentrations. Kidney International, 2013, 83, 692-699.	2.6	152
4	User Acceptance of Wrist-Worn Activity Trackers Among Community-Dwelling Older Adults: Mixed Method Study. JMIR MHealth and UHealth, 2017, 5, e173.	1.8	135
5	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.	2.2	119
6	Obesity, Acute Kidney Injury, and Mortality in Critical Illness. Critical Care Medicine, 2016, 44, 328-334.	0.4	116
7	Personalized Mortality Prediction Driven by Electronic Medical Data and a Patient Similarity Metric. PLoS ONE, 2015, 10, e0127428.	1.1	101
8	Red cell distribution width improves the simplified acute physiology score for risk prediction in unselected critically ill patients. Critical Care, 2012, 16, R89.	2.5	95
9	Transfer Entropy Estimation and Directional Coupling Change Detection in Biomedical Time Series. BioMedical Engineering OnLine, 2012, 11, 19.	1.3	86
10	Time-Limited Trials of Intensive Care for Critically Ill Patients With Cancer. JAMA Oncology, 2016, 2, 76.	3.4	83
11	Consumer Mobile Apps for Potential Drug-Drug Interaction Check: Systematic Review and Content Analysis Using the Mobile App Rating Scale (MARS). JMIR MHealth and UHealth, 2018, 6, e74.	1.8	77
12	Patient Similarity in Prediction Models Based on Health Data: A Scoping Review. JMIR Medical Informatics, 2017, 5, e7.	1.3	72
13	Disease Monitoring and Health Campaign Evaluation Using Google Search Activities for HIV and AIDS, Stroke, Colorectal Cancer, and Marijuana Use in Canada: A Retrospective Observational Study. JMIR Public Health and Surveillance, 2016, 2, e156.	1.2	62
14	An investigation of patterns in hemodynamic data indicative of impending hypotension in intensive care. BioMedical Engineering OnLine, 2010, 9, 62.	1.3	58
15	Effects of liquid stimuli on dual-axis swallowing accelerometry signals in a healthy population. BioMedical Engineering OnLine, 2010, 9, 7.	1.3	52
16	A radial basis classifier for the automatic detection of aspiration in children with dysphagia. Journal of NeuroEngineering and Rehabilitation, 2006, 3, 14.	2.4	49
17	Open-access MIMIC-II database for intensive care research. , 2011, 2011, 8315-8.		48
18	Accessing the public MIMIC-II intensive care relational database for clinical research. BMC Medical Informatics and Decision Making, 2013, 13, 9.	1.5	48

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19	A Database-driven Decision Support System: Customized Mortality Prediction. <i>Journal of Personalized Medicine</i> , 2012, 2, 138-148.	1.1	47
20	Sentiment in nursing notes as an indicator of out-of-hospital mortality in intensive care patients. <i>PLoS ONE</i> , 2018, 13, e0198687.	1.1	46
21	Empirical relationships among oliguria, creatinine, mortality, and renal replacement therapy in the critically ill. <i>Intensive Care Medicine</i> , 2013, 39, 414-419.	3.9	44
22	Digital public health surveillance: a systematic scoping review. <i>Npj Digital Medicine</i> , 2021, 4, 41.	5.7	44
23	Respiration and heart rate complexity: Effects of age and gender assessed by band-limited transfer entropy. <i>Respiratory Physiology and Neurobiology</i> , 2013, 189, 27-33.	0.7	43
24	A New Insight Into Missing Data in Intensive Care Unit Patient Profiles: Observational Study. <i>JMIR Medical Informatics</i> , 2019, 7, e11605.	1.3	43
25	Risk stratification of ICU patients using topic models inferred from unstructured progress notes. <i>AMIA ... Annual Symposium proceedings</i> , 2012, 2012, 505-11.	0.2	40
26	Signal Quality Estimation With Multichannel Adaptive Filtering in Intensive Care Settings. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 2476-2485.	2.5	35
27	Severity of Acute Kidney Injury and Two-Year Outcomes in Critically Ill Patients. <i>Chest</i> , 2013, 144, 866-875.	0.4	35
28	Classification of healthy and abnormal swallows based on accelerometry and nasal airflow signals. <i>Artificial Intelligence in Medicine</i> , 2011, 52, 17-25.	3.8	34
29	Right Ventricular Function, Peripheral Edema, and Acute Kidney Injury in Critical Illness. <i>Kidney International Reports</i> , 2017, 2, 1059-1065.	0.4	31
30	Swallow segmentation with artificial neural networks and multi-sensor fusion. <i>Medical Engineering and Physics</i> , 2009, 31, 1049-1055.	0.8	30
31	Errors, Omissions, and Outliers in Hourly Vital Signs Measurements in Intensive Care. <i>Critical Care Medicine</i> , 2016, 44, e1021-e1030.	0.4	29
32	Patient-Specific Predictive Modeling Using Random Forests: An Observational Study for the Critically Ill. <i>JMIR Medical Informatics</i> , 2017, 5, e3.	1.3	26
33	Using Machine Learning and Smartphone and Smartwatch Data to Detect Emotional States and Transitions: Exploratory Study. <i>JMIR MHealth and UHealth</i> , 2020, 8, e17818.	1.8	25
34	Proton Pump Inhibitors Are Not Associated With Acute Kidney Injury in Critical Illness. <i>Journal of Clinical Pharmacology</i> , 2016, 56, 1500-1506.	1.0	23
35	The Association Between Admission Magnesium Concentrations and Lactic Acidosis in Critical Illness. <i>Journal of Intensive Care Medicine</i> , 2016, 31, 187-192.	1.3	22
36	Customization of a Severity of Illness Score Using Local Electronic Medical Record Data. <i>Journal of Intensive Care Medicine</i> , 2017, 32, 38-47.	1.3	22

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37	Association of hypermagnesemia and blood pressure in the critically ill. <i>Journal of Hypertension</i> , 2013, 31, 2136-2141.	0.3	20
38	Using information theory to identify redundancy in common laboratory tests in the intensive care unit. <i>BMC Medical Informatics and Decision Making</i> , 2015, 15, 59.	1.5	20
39	Predicting Discharge Destination of Critically Ill Patients Using Machine Learning. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 827-837.	3.9	19
40	Effect of Active Cancer on the Cardiac Phenotype: A Cardiac Magnetic Resonance Imaging-Based Study of Myocardial Tissue Health and Deformation in Patients With Chemotherapy-Naïve Cancer. <i>Journal of the American Heart Association</i> , 2021, 10, e019811.	1.6	19
41	Increased incidence of diuretic use in critically ill obese patients. <i>Journal of Critical Care</i> , 2015, 30, 619-623.	1.0	18
42	The Effect of ARDS on Survival: Do Patients Die From ARDS or With ARDS?. <i>Journal of Intensive Care Medicine</i> , 2019, 34, 374-382.	1.3	18
43	Fall Risk Classification in Community-Dwelling Older Adults Using a Smart Wrist-Worn Device and the Resident Assessment Instrument-Home Care: Prospective Observational Study. <i>JMIR Aging</i> , 2019, 2, e12153.	1.4	18
44	Artificial intelligence (AI) and cancer prevention: the potential application of AI in cancer control programming needs to be explored in population laboratories such as COMPASS. <i>Cancer Causes and Control</i> , 2019, 30, 671-675.	0.8	17
45	Computerized Decision Aids for Shared Decision Making in Serious Illness: Systematic Review. <i>JMIR Medical Informatics</i> , 2017, 5, e36.	1.3	17
46	The Use of Technology in Identifying Hospital Malnutrition: Scoping Review. <i>JMIR Medical Informatics</i> , 2018, 6, e4.	1.3	17
47	Is Artificial Intelligence Better Than Human Clinicians in Predicting Patient Outcomes?. <i>Journal of Medical Internet Research</i> , 2020, 22, e19918.	2.1	16
48	Electronic Medical Record-Based Case Phenotyping for the Charlson Conditions: Scoping Review. <i>JMIR Medical Informatics</i> , 2021, 9, e23934.	1.3	15
49	Machine learning for identification of frailty in Canadian primary care practices. <i>International Journal of Population Data Science</i> , 2021, 6, 1650.	0.1	15
50	Natural language processing to measure the frequency and mode of communication between healthcare professionals and family members of critically ill patients. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 541-548.	2.2	14
51	Interrogating a clinical database to study treatment of hypotension in the critically ill. <i>BMJ Open</i> , 2012, 2, e000916.	0.8	13
52	Admission Peripheral Edema, Central Venous Pressure, and Survival in Critically Ill Patients. <i>Annals of the American Thoracic Society</i> , 2016, 13, 705-711.	1.5	13
53	Cardio-pulmonary-renal interactions in ICU patients. Role of mechanical ventilation, venous congestion and perfusion deficit on worsening of renal function: Insights from the MIMIC-III database. <i>Journal of Critical Care</i> , 2021, 64, 100-107.	1.0	13
54	Effects of Age and Stimulus on Submental Mechanomyography Signals During Swallowing. <i>Dysphagia</i> , 2009, 24, 265-273.	1.0	11

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55	Readability and Coherence of Department/Ministry of Health HPV Information. Journal of Cancer Education, 2018, 33, 147-153.	0.6	11
56	Leveraging artificial intelligence to monitor unhealthy food and brand marketing to children on digital media. The Lancet Child and Adolescent Health, 2020, 4, 418-420.	2.7	11
57	A web-based data visualization tool for the MIMIC-II database. BMC Medical Informatics and Decision Making, 2015, 16, 15.	1.5	10
58	Mortality Prediction in the ICU. , 2016, , 315-324.		8
59	Online Reviews as Health Data: Examining the Association Between Availability of Health Care Services and Patient Star Ratings Exemplified by the Yelp Academic Dataset. JMIR Public Health and Surveillance, 2017, 3, e43.	1.2	8
60	Consumer-Grade Wearable Device for Predicting Frailty in Canadian Home Care Service Clients: Prospective Observational Proof-of-Concept Study. Journal of Medical Internet Research, 2020, 22, e19732.	2.1	8
61	Proton pump inhibitor use is not associated with cardiac arrhythmia in critically ill patients. Journal of Clinical Pharmacology, 2015, 55, 774-779.	1.0	7
62	Clinicians and Older Adultsâ€™ Perceptions of the Utility of Patient-Generated Health Data in Caring for Older Adults: Exploratory Mixed Methods Study. JMIR Aging, 2021, 4, e29788.	1.4	7
63	Predicting ICU admissions from attempted suicide presentations at an Emergency Department in Central Queensland. Australasian Medical Journal, 2013, 6, 536-541.	0.1	6
64	Using multiple sentiment dimensions of nursing notes to predict mortality in the intensive care unit. , 2018, , .		6
65	CREATE: A New Data Resource to Support Cardiac Precision Health. CJC Open, 2021, 3, 639-645.	0.7	6
66	Using Item Response Theory for Explainable Machine Learning in Predicting Mortality in the Intensive Care Unit: Case-Based Approach. Journal of Medical Internet Research, 2020, 22, e20268.	2.1	6
67	Mortality prediction with self normalizing neural networks in intensive care unit patients. , 2018, , .		5
68	Novel Feature Selection for Artificial Intelligence Using Item Response Theory for Mortality Prediction. , 2020, 2020, 5729-5732.		5
69	Using Consumer-Grade Physical Activity Trackers to Measure Frailty Transitions in Older Critical Care Survivors: Exploratory Observational Study. JMIR Aging, 2021, 4, e19859.	1.4	5
70	Item response theory as a feature selection and interpretation tool in the context of machine learning. Medical and Biological Engineering and Computing, 2021, 59, 471-482.	1.6	5
71	Identifying subpopulations of septic patients: A temporal data-driven approach. Computers in Biology and Medicine, 2021, 130, 104182.	3.9	5
72	Customized Prediction of Short Length of Stay Following Elective Cardiac Surgery in Elderly Patients Using a Genetic Algorithm. World Journal of Cardiovascular Surgery, 2013, 03, 163-170.	0.1	5

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73	Collective Experience: A Database-Fuelled, Inter-Disciplinary Team-Led Learning System. Journal of Computing Science and Engineering, 2012, 6, 51-59.	0.3	5
74	Automatic Identification of Information Quality Metrics in Health News Stories. Frontiers in Public Health, 2020, 8, 515347.	1.3	4
75	Applications of information and communications technologies to public health: A scoping review using the MeSH term "public health informatics". Online Journal of Public Health Informatics, 2017, 9, e192.	0.4	4
76	The organizational structure of an intensive care unit influences treatment of hypotension among critically ill patients: A retrospective cohort study. Journal of Critical Care, 2016, 33, 14-18.	1.0	3
77	Finding Similar Patient Subpopulations in the ICU Using Laboratory Test Ordering Patterns. , 2018, , .		3
78	A Radial Basis Function Classifier for Pediatric Aspiration Detection. , 2006, 2006, 3553-6.		2
79	Personalized mortality prediction for the critically ill using a patient similarity metric and bagging. , 2016, , .		2
80	Crowdsourcing for Machine Learning in Public Health Surveillance: Lessons Learned From Amazon Mechanical Turk. Journal of Medical Internet Research, 2022, 24, e28749.	2.1	2
81	Detecting Uncertainty of Mortality Prediction Using Confident Learning. , 2021, 2021, 1719-1722.		2
82	Predicting Abnormal Laboratory Blood Test Results in the Intensive Care Unit Using Novel Features Based on Information Theory and Historical Conditional Probability: Observational Study. JMIR Medical Informatics, 2022, 10, e35250.	1.3	2
83	Photoplethysmograph quality estimation through multichannel filtering. , 2011, 2011, 4361-4.		1
84	Do Hyponatremia or Its Underlying Mechanisms Associate With Mortality Risk in Observational Data?. , 2020, 2, e0074.		1
85	Physical Activity, Sedentary Behavior, and Sleep on Twitter: Multicountry and Fully Labeled Public Data Set for Digital Public Health Surveillance Research. JMIR Public Health and Surveillance, 2022, 8, e32355.	1.2	1
86	Reputation-Based Neural Network Combinations. , 2011, , .		0