Joon Lee

List of Publications by Citations

83 papers	2,353 citations	24 h-index	47 g-index
102 ext. papers	2,896 ext. citations	4.6 avg, IF	5.39 L-index

#	Paper	IF	Citations
83	Outcome of critically ill patients with acute kidney injury using the Acute Kidney Injury Network criteria. *Critical Care Medicine*, **2011**, 39, 2659-64	1.4	640
82	Proton-pump inhibitor use is associated with low serum magnesium concentrations. *Kidney International*, **2013**, 83, 692-9	9.9	117
81	Smart Devices for Older Adults Managing Chronic Disease: A Scoping Review. *JMIR MHealth and UHealth*, **2017**, 5, e69	5.5	96
80	Obesity, Acute Kidney Injury, and Mortality in Critical Illness. *Critical Care Medicine*, **2016**, 44, 328-34	1.4	87
79	Peripheral Edema, Central Venous Pressure, and Risk of AKI in Critical Illness. *Clinical Journal of the American Society of Nephrology: CJASN*, **2016**, 11, 602-8	6.9	81
78	User Acceptance of Wrist-Worn Activity Trackers Among Community-Dwelling Older Adults: Mixed Method Study. *JMIR MHealth and UHealth*, **2017**, 5, e173	5.5	78
77	Red cell distribution width improves the simplified acute physiology score for risk prediction in unselected critically ill patients. *Critical Care*, **2012**, 16, R89	10.8	77
76	Personalized mortality prediction driven by electronic medical data and a patient similarity metric. *PLoS ONE*, **2015**, 10, e0127428	3.7	73
75	Transfer entropy estimation and directional coupling change detection in biomedical time series. *BioMedical Engineering OnLine*, **2012**, 11, 19	4.1	65
74	Time-Limited Trials of Intensive Care for Critically Ill Patients With Cancer: How Long Is Long Enough?. *JAMA Oncology*, **2016**, 2, 76-83	13.4	51
73	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	5.5	49
72	Effects of liquid stimuli on dual-axis swallowing accelerometry signals in a healthy population. *BioMedical Engineering OnLine*, **2010**, 9, 7	4.1	44
71	Patient Similarity in Prediction Models Based on Health Data: A Scoping Review. *JMIR Medical Informatics*, **2017**, 5, e7	3.6	44
70	Accessing the public MIMIC-II intensive care relational database for clinical research. *BMC Medical Informatics and Decision Making*, **2013**, 13, 9	3.6	43
69	An investigation of patterns in hemodynamic data indicative of impending hypotension in intensive care. *BioMedical Engineering OnLine*, **2010**, 9, 62	4.1	43
68	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	11.4	43
67	A Database-driven Decision Support System: Customized Mortality Prediction. *Journal of Personalized Medicine*, **2012**, 2, 138-48	3.6	42

66	Respiration and heart rate complexity: effects of age and gender assessed by band-limited transfer entropy. *Respiratory Physiology and Neurobiology*, **2013**, 189, 27-33	2.8	39
65	Risk stratification of ICU patients using topic models inferred from unstructured progress notes **2012**, 2012, 505-11	0.7	39
64	A radial basis classifier for the automatic detection of aspiration in children with dysphagia. *Journal of NeuroEngineering and Rehabilitation*, **2006**, 3, 14	5.3	38
63	Empirical relationships among oliguria, creatinine, mortality, and renal replacement therapy in the critically ill. *Intensive Care Medicine*, **2013**, 39, 414-9	14.5	34
62	Signal quality estimation with multichannel adaptive filtering in intensive care settings. *IEEE Transactions on Biomedical Engineering*, **2012**, 59, 2476-85	5	30
61	Severity of acute kidney injury and two-year outcomes in critically ill patients. *Chest*, **2013**, 144, 866-875	5.3	26
60	Open-access MIMIC-II database for intensive care research. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 8315-8	0.9	26
59	A New Insight Into Missing Data in Intensive Care Unit Patient Profiles: Observational Study. *JMIR Medical Informatics*, **2019**, 7, e11605	3.6	24
58	Classification of healthy and abnormal swallows based on accelerometry and nasal airflow signals. *Artificial Intelligence in Medicine*, **2011**, 52, 17-25	7.4	23
57	Sentiment in nursing notes as an indicator of out-of-hospital mortality in intensive care patients. *PLoS ONE*, **2018**, 13, e0198687	3.7	23
56	The Association Between Admission Magnesium Concentrations and Lactic Acidosis in Critical Illness. *Journal of Intensive Care Medicine*, **2016**, 31, 187-92	3.3	20
55	Right Ventricular Function, Peripheral Edema, and Acute Kidney Injury in Critical Illness. *Kidney International Reports*, **2017**, 2, 1059-1065	4.1	20
54	Swallow segmentation with artificial neural networks and multi-sensor fusion. *Medical Engineering and Physics*, **2009**, 31, 1049-55	2.4	20
53	Errors, Omissions, and Outliers in Hourly Vital Signs Measurements in Intensive Care. *Critical Care Medicine*, **2016**, 44, e1021-e1030	1.4	18
52	Patient-Specific Predictive Modeling Using Random Forests: An Observational Study for the Critically Ill. *JMIR Medical Informatics*, **2017**, 5, e3	3.6	18
51	Increased incidence of diuretic use in critically ill obese patients. *Journal of Critical Care*, **2015**, 30, 619-23	4	17
50	Proton Pump Inhibitors Are Not Associated With Acute Kidney Injury in Critical Illness. *Journal of Clinical Pharmacology*, **2016**, 56, 1500-1506	2.9	17
49	Customization of a Severity of Illness Score Using Local Electronic Medical Record Data. *Journal of Intensive Care Medicine*, **2017**, 32, 38-47	3.3	16

48	Association of hypermagnesemia and blood pressure in the critically ill. *Journal of Hypertension*, **2013**, 31, 2136-41; discussion 2141	1.9	15
47	Using information theory to identify redundancy in common laboratory tests in the intensive care unit. *BMC Medical Informatics and Decision Making*, **2015**, 15, 59	3.6	14
46	The Effect of ARDS on Survival: Do Patients Die From ARDS or With ARDS?. *Journal of Intensive Care Medicine*, **2019**, 34, 374-382	3.3	13
45	The Use of Technology in Identifying Hospital Malnutrition: Scoping Review. *JMIR Medical Informatics*, **2018**, 6, e4	3.6	11
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. *Cancer Causes and Control*, **2019**, 30, 671-675	2.8	10
43	Readability and Coherence of Department/Ministry of Health HPV Information. *Journal of Cancer Education*, **2018**, 33, 147-153	1.8	10
42	Admission Peripheral Edema, Central Venous Pressure, and Survival in Critically Ill Patients. *Annals of the American Thoracic Society*, **2016**, 13, 705-11	4.7	10
41	Interrogating a clinical database to study treatment of hypotension in the critically ill. *BMJ Open*, **2012**, 2,	3	10
40	Fall Risk Classification in Community-Dwelling Older Adults Using a Smart Wrist-Worn Device and the Resident Assessment Instrument-Home Care: Prospective Observational Study. *JMIR Aging*, **2019**, 2, e12153	4.8	10
39	Digital public health surveillance: a systematic scoping review. *Npj Digital Medicine*, **2021**, 4, 41	15.7	10
38	Effects of age and stimulus on submental mechanomyography signals during swallowing. *Dysphagia*, **2009**, 24, 265-73	3.7	8
37	Using Machine Learning and Smartphone and Smartwatch Data to Detect Emotional States and Transitions: Exploratory Study. *JMIR MHealth and UHealth*, **2020**, 8, e17818	5.5	8
36	Is Artificial Intelligence Better Than Human Clinicians in Predicting Patient Outcomes?. *Journal of Medical Internet Research*, **2020**, 22, e19918	7.6	8
35	Computerized Decision Aids for Shared Decision Making in Serious Illness: Systematic Review. *JMIR Medical Informatics*, **2017**, 5, e36	3.6	8
34	A web-based data visualization tool for the MIMIC-II database. *BMC Medical Informatics and Decision Making*, **2016**, 16, 15	3.6	7
33	Proton pump inhibitor use is not associated with cardiac arrhythmia in critically ill patients. *Journal of Clinical Pharmacology*, **2015**, 55, 774-9	2.9	7
32	Predicting Discharge Destination of Critically Ill Patients Using Machine Learning. *IEEE Journal of Biomedical and Health Informatics*, **2021**, 25, 827-837	7.2	7
31	**2018**,		5

30	Collective Experience: A Database-Fuelled, Inter-Disciplinary Team-Led Learning System. *Journal of Computing Science and Engineering*, **2012**, 6, 51-59	1.8	5
29	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. *Journal of the American Heart Association*, **2021**, 10, e019811	6	5
28	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	14.5	4
27	Predicting ICU admissions from attempted suicide presentations at an Emergency Department in Central Queensland. *Australasian Medical Journal*, **2013**, 6, 536-41	2	4
26	Customized Prediction of Short Length of Stay Following Elective Cardiac Surgery in Elderly Patients Using a Genetic Algorithm. *World Journal of Cardiovascular Surgery*, **2013**, 3, 163-170	0	4
25	Natural language processing to measure the frequency and mode of communication between healthcare professionals and family members of critically ill patients. *Journal of the American Medical Informatics Association: JAMIA*, **2021**, 28, 541-548	8.6	4
24	Mortality prediction with self normalizing neural networks in intensive care unit patients **2018**,		3
23	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, 14-8	4	3
22	Using Consumer-Grade Physical Activity Trackers to Measure Frailty Transitions in Older Critical Care Survivors: Exploratory Observational Study. *JMIR Aging*, **2021**, 4, e19859	4.8	3
21	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. *Journal of Critical Care*, **2021**, 64, 100-107	4	3
20	Mortality Prediction in the ICU **2016**, 315-324		2
19	A radial basis function classifier for pediatric aspiration detection. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, 2006, 3553-6		2
18	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	7.6	2
17	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	11.4	2
16	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	0.3	2
15	Novel Feature Selection for Artificial Intelligence Using Item Response Theory for Mortality Prediction. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2020**, 2020, 5729-5732	0.9	2
14	Personalized mortality prediction for the critically ill using a patient similarity metric and bagging **2016**,		2
13	Photoplethysmograph quality estimation through multichannel filtering. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 4361-4	0.9	1

12	Crowdsourcing for Machine Learning in Public Health Surveillance: Lessons Learned From Amazon Mechanical Turk.. *Journal of Medical Internet Research*, **2022**, 24, e28749	7.6	1
11	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	11.4	1
10	Identifying subpopulations of septic patients: A temporal data-driven approach. *Computers in Biology and Medicine*, **2021**, 130, 104182	7	1
9	Electronic Medical Record-Based Case Phenotyping for the Charlson Conditions: Scoping Review. *JMIR Medical Informatics*, **2021**, 9, e23934	3.6	1
8	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	3.1	1
7	Finding Similar Patient Subpopulations in the ICU Using Laboratory Test Ordering Patterns **2018**,		1
6	Machine learning for identification of frailty in Canadian primary care practices. *International Journal of Population Data Science*, **2021**, 6, 1650	1.4	1
5	Clinicians and Older AdultsRPerceptions of the Utility of Patient-Generated Health Data in Caring for Older Adults: Exploratory Mixed Methods Study. *JMIR Aging*, **2021**, 4, e29788	4.8	0
4	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	7.6	0
3	CREATE: A New Data Resource to Support Cardiac Precision Health. *CJC Open*, **2021**, 3, 639-645	2	0
2	Detecting Uncertainty of Mortality Prediction Using Confident Learning. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2021**, 2021, 1719-1722	0.9	0
1	Do Hyponatremia or Its Underlying Mechanisms Associate With Mortality Risk in Observational Data? **2020**, 2, e0074		