Thomas G Kannampallil

List of Publications by Year
in descending order

97	2,132	393982 19	288905 40
papers	citations	h-index	g-index

105	105	105	2415
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exposure to COVID-19 patients increases physician trainee stress and burnout. PLoS ONE, 2020, 15, e0237301.	1.1	272
2	Considering complexity in healthcare systems. Journal of Biomedical Informatics, 2011, 44, 943-947.	2.5	252
3	Work-Related and Personal Factors Associated With Mental Well-Being During the COVID-19 Response: Survey of Health Care and Other Workers. Journal of Medical Internet Research, 2020, 22, e21366.	2.1	202
4	A systematic review of the literature on the evaluation of handoff tools: implications for research and practice. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 154-162.	2.2	135
5	Bridging gaps in handoffs: A continuity of care based approach. Journal of Biomedical Informatics, 2012, 45, 240-254.	2.5	89
6	Evaluating tagging behavior in social bookmarking systems. , 2007, , .		60
7	Understanding the nature of information seeking behavior in critical care: Implications for the design of health information technology. Artificial Intelligence in Medicine, 2013, 57, 21-29.	3.8	58
8	Semantic imitation in social tagging. ACM Transactions on Computer-Human Interaction, 2010, 17, 1-37.	4.6	53
9	Comparative evaluation of the content and structure of communication using two handoff tools: Implications for patient safety. Journal of Critical Care, 2014, 29, 311.e1-311.e7.	1.0	49
10	Cognitive informatics in biomedicine and healthcare. Journal of Biomedical Informatics, 2015, 53, 3-14.	2.5	47
11	Role of cognition in generating and mitigating clinical errors. BMJ Quality and Safety, 2015, 24, 468-474.	1.8	47
12	Making sense: Sensor-based investigation of clinician activities in complex critical care environments. Journal of Biomedical Informatics, 2011, 44, 441-454.	2.5	43
13	Characterizing the pain score trajectories of hospitalized adult medical and surgical patients: a retrospective cohort study. Pain, 2016, 157, 2739-2746.	2.0	35
14	Adaptive information search. , 2009, , .		34
15	Characterizing the structure and content of nurse handoffs: A Sequential Conversational Analysis approach. Journal of Biomedical Informatics, 2016, 59, 76-88.	2.5	33
16	Comparing the information seeking strategies of residents, nurse practitioners, and physician assistants in critical care settings. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, e249-e256.	2.2	29
17	Transmission dynamics: Data sharing in the <scp>COVID</scp>â€19 era. Learning Health Systems, 2021, 5, e10235.	1.1	28
18	Diagnostic Reasoning and Decision Making in the Context of Health Information Technology. Reviews of Human Factors and Ergonomics, 2013, 8, 149-190.	0.5	27

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19	Probabilistic forecasting of surgical case duration using machine learning: model development and validation. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1885-1893.	2.2	26
20	Systematic review and meta-analysis of interventions for operating room to intensive care unit handoffs. BMJ Quality and Safety, 2021, 30, 513-524.	1.8	23
21	Effect of number of open charts on intercepted wrong-patient medication orders in an emergency department. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 739-743.	2.2	21
22	Digital Translucence: Adapting Telemedicine Delivery Post-COVID-19. Telemedicine Journal and E-Health, 2020, 26, 1120-1122.	1.6	20
23	Continuous real-time prediction of surgical case duration using a modular artificial neural network. British Journal of Anaesthesia, 2022, 128, 829-837.	1.5	20
24	Efficiency of Emergency Physicians: Insights from an Observational Study using EHR Log Files. Applied Clinical Informatics, 2018, 09, 099-104.	0.8	19
25	Systematic Review of Intraoperative Anesthesia Handoffs and Handoff Tools. Anesthesia and Analgesia, 2021, 132, 1563-1575.	1.1	19
26	Precision clinical trials: a framework for getting to precision medicine for neurobehavioural disorders. Journal of Psychiatry and Neuroscience, 2021, 46, E97-E110.	1.4	19
27	Ensuring patient safety in care transitions: an empirical evaluation of a Handoff Intervention Tool. AMIA ... Annual Symposium proceedings, 2012, 2012, 17-26.	0.2	19
28	Emergency Physicians' Perceived Influence of EHR Use on Clinical Workflow and Performance Metrics. Applied Clinical Informatics, 2018, 09, 725-733.	0.8	18
29	A Qualitative Study of Perioperative Depression and Anxiety in Older Adults. American Journal of Geriatric Psychiatry, 2020, 28, 1107-1118.	0.6	18
30	Conceptual considerations for using EHR-based activity logs to measure clinician burnout and its effects. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1032-1037.	2.2	18
31	Measuring content overlap during handoff communication using distributional semantics: An exploratory study. Journal of Biomedical Informatics, 2017, 65, 132-144.	2.5	17
32	Risk factors associated with physician trainee concern over missed educational opportunities during the COVID-19 pandemic. BMC Medical Education, 2021, 21, 216.	1.0	17
33	Reasons for computerised provider order entry (CPOE)-based inpatient medication ordering errors: an observational study of voided orders. BMJ Quality and Safety, 2018, 27, 299-307.	1.8	16
34	Learning from errors: analysis of medication order voiding in CPOE systems. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, 762-768.	2.2	14
35	Effects of CPOE-based medication ordering on outcomes: an overview of systematic reviews. BMJ Quality and Safety, 2020, 29, 1.7-2.	1.8	13
36	RespWatch. , 2021, , .		13

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37	Facilitating exploratory search by model-based navigational cues. , 2010, , .		12
38	Methodological framework for evaluating clinical processes: A cognitive informatics perspective. Journal of Biomedical Informatics, 2016, 64, 342-351.	2.5	12
39	When past is not a prologue: Adapting informatics practice during a pandemic. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1142-1146.	2.2	12
40	Comparing stress prediction models using smartwatch physiological signals and participant self-reports. Computer Methods and Programs in Biomedicine, 2021, 208, 106207.	2.6	12
41	Predicting physician burnout using clinical activity logs: Model performance and lessons learned. Journal of Biomedical Informatics, 2022, 127, 104015.	2.5	11
42	Temporal Associations Between EHR-Derived Workload, Burnout, and Errors: a Prospective Cohort Study. Journal of General Internal Medicine, 2022, 37, 2165-2172.	1.3	11
43	Protocol for the Effectiveness of an Anesthesiology Control Tower System in Improving Perioperative Quality Metrics and Clinical Outcomes: the TECTONICS randomized, pragmatic trial. F1000Research, 2019, 8, 2032.	0.8	10
44	Emergency Department-Based Care Transitions for Pediatric Patients: A Systematic Review. Pediatrics, 2016, 138, .	1.0	9
45	Impact of Changes in EHR Use during COVID-19 on Physician Trainee Mental Health. Applied Clinical Informatics, 2021, 12, 507-517.	0.8	9
46	An observational study of postoperative handoff standardization failures. International Journal of Medical Informatics, 2021, 151, 104458.	1.6	9
47	Towards an Ontology for Interdisciplinary Handoff Communication in Intensive Care. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2014, 3, 196-202.	0.2	8
48	Echo: A large display interactive visualization of ICU data for effective care handoffs. , 2017, 2017, 47-54.		8
49	Cognitive plausibility in voice-based AI health counselors. Npj Digital Medicine, 2020, 3, 72.	5.7	8
50	Predicting self-intercepted medication ordering errors using machine learning. PLoS ONE, 2021, 16, e0254358.	1.1	8
51	Physician Workflow in Two Distinctive Emergency Departments: An Observational Study. Applied Clinical Informatics, 2021, 12, 141-152.	0.8	8
52	Post-acute sensory neurological sequelae in patients with severe acute respiratory syndrome coronavirus 2 infection: the COVID-PN observational cohort study. Pain, 2022, 163, 2398-2410.	2.0	8
53	External tools for collaborative medication scheduling. Cognition, Technology and Work, 2013, 15, 121-131.	1.7	7
54	The impact of educational interventions on antibiotic prescribing for acute upper respiratory tract infections in the ambulatory care setting: A quasiâ€experimental study. JACCP Journal of the American College of Clinical Pharmacy, 2020, 3, 609-614.	0.5	7

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55	Impact of Structured Rounding Tools on Time Allocation During Multidisciplinary Rounds: An Observational Study. JMIR Human Factors, 2016, 3, e29.	1.0	7
56	Multi-Task Learning for Randomized Controlled Trials. , 2022, 6, 1-23.		7
57	Impact of EHR-based rounding tools on interactive communication: A prospective observational study. International Journal of Medical Informatics, 2019, 129, 423-429.	1.6	6
58	Risk factors associated with medication ordering errors. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 86-94.	2.2	6
59	Cohort study protocol to characterize the incidence and severity of neuropathic pain in patients with severe acute respiratory syndrome coronavirus 2 infection. Pain Reports, 2021, 6, e925.	1.4	6
60	Learning optimal opioid prescribing and monitoring: a simulation study of medical residents. JAMIA Open, 2018, 1, 246-254.	1.0	5
61	Evaluating the effects of cognitive support on psychiatric clinical comprehension. Artificial Intelligence in Medicine, 2014, 62, 91-104.	3.8	4
62	Comparative assessment of content overlap between written documentation and verbal communication: an observational study of resident sign-outs. JAMIA Open, 2018, 1, 210-217.	1.0	4
63	Association between paediatric intraoperative anaesthesia handover and adverse postoperative outcomes. BMJ Quality and Safety, 2021, 30, 755-763.	1.8	4
64	Listening and question-asking behaviors in resident and nurse handoff conversations: a prospective observational study. JAMIA Open, 2020, 3, 87-93.	1.0	4
65	Effects of Persistent Exposure to COVID-19 on Mental Health Outcomes Among Trainees: a Longitudinal Survey Study. Journal of General Internal Medicine, 2022, 37, 1204-1210.	1.3	4
66	Effect of clinician attention switching on workload and wrong-patient errors. British Journal of Anaesthesia, 2022, 129, e22-e24.	1.5	4
67	Effect of acute postsurgical pain trajectories on 30-day and 1-year pain. PLoS ONE, 2022, 17, e0269455.	1.1	4
68	Design research as explanation. , 2009, , .		3
69	Collaborative Tools in a Simulated Patient-Provider Medication Scheduling Task. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 1936-1940.	0.2	3
70	Special issue on cognitive informatics methods for interactive clinical systems. Journal of Biomedical Informatics, 2017, 71, 207-210.	2.5	3
71	Interdisciplinary handover between obstetric nursing and neonatal physician teams: an observational study. BMJ Paediatrics Open, 2019, 3, e000432.	0.6	3
72	Effect of an Alternative Newborn Naming Strategy on Wrong-Patient Errors: A Quasi-Experimental Study. Applied Clinical Informatics, 2020, 11, 235-241.	0.8	3

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73	Human-Computer Interaction, Usability, and Workflow. , 2021, , 153-175.		3
74	Sub-optimal Patterns of Information Use: A Rational Analysis of Information Seeking Behavior in Critical Care. Computers in Health Care, 2014, , 389-408.	0.2	3
75	Cognitive Approaches to Clinical Data Management for Decision Support: Is It Old Wine in New Bottle?. Lecture Notes in Computer Science, 2011, , 1-13.	1.0	3
76	Harnessing Web 2.0 for Context-Aware Learning. , 2010, , 98-113.		3
77	Conformity out of Diversity: Dynamics of Information Needs and Social Influence of Tags in Exploratory Information Search. Lecture Notes in Computer Science, 2009, , 155-164.	1.0	3
78	Cross-trial prediction of depression remission using problem-solving therapy: A machine learning approach. Journal of Affective Disorders, 2022, , .	2.0	3
79	End-of-Round Time Compression in Physician Handoff Sessions. JAMA Internal Medicine, 2013, 173, 1033.	2.6	2
80	Metrics for Evaluating the Quality of Handovers. JAMA Internal Medicine, 2015, 175, 654.	2.6	2
81	â€˜This is our liver patientâ€¦â€™: use of narratives during resident and nurse handoff conversations. BMJ Quality and Safety, 2020, 29, 135-141.	1.8	2
82	Re-thinking Complexity in the Critical Care Environment. Computers in Health Care, 2014, , 343-355.	0.2	2
83	Effect of Handoff Training on Resident Communication Quality: An Observational Study. , 2018, , .		2
84	Effect of health information technology (HIT)-based discharge transition interventions on patient readmissions and emergency room visits: a systematic review. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 735-748.	2.2	2
85	New JBI policy emphasizes clinically-meaningful novel machine learning methods. Journal of Biomedical Informatics, 2022, 127, 104003.	2.5	2
86	Automated Workflow Analysis and Tracking Using Radio Frequency Identification Technology. Computers in Health Care, 2014, , 357-387.	0.2	1
87	Quantifying Physician Activities in Emergency Care. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 798-802.	0.2	1
88	Communication Patterns in a Collaborative Medication Scheduling Task among Older Adults. , 2016, , .		1
89	A graph-based approach for characterizing resident and nurse handoff conversations. Journal of Biomedical Informatics, 2019, 94, 103178.	2.5	1
90	Surgical Complications in Older Adults Predict Decline in Self-Perceived Cognitive Function in the Ensuing Year: A Cohort Study. American Journal of Geriatric Psychiatry, 2021, 29, 352-361.	0.6	1

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91	Getting More Precise in Public Messaging on Scientific and Data Uncertainties for Precision Medicine Research. Annals of Behavioral Medicine, 2021, 55, 1045-1047.	1.7	1
92	Applying diagnosis support systems in electronic health records to identify wild-type transthyretin amyloid cardiomyopathy risk. Future Cardiology, 2022, , .	0.5	1
93	Cognitive informatics methods for interactive clinical systems. Journal of Biomedical Informatics, 2016, 60, 197-198.	2.5	0
94	Physician scientists should learn how to program. Journal of Investigative Medicine, 2017, 65, e5-e5.	0.7	0
95	Clinical Workflow: The Past, Present, and Future. Computers in Health Care, 2019, , 307-311.	0.2	0
96	Comment on â€œAdverse Outcomes Associated with Intraoperative Anesthesia Handovers: A Systematic Review and Meta-analysisâ€• Journal of Perianesthesia Nursing, 2021, 36, 327.	0.3	0
97	Protocol for the perioperative outcome risk assessment with computer learning enhancement (Periop) Tj ETQq1 1 0.784314 rgBT /Over	0.8	0