

Yan Xiao

List of Publications by Year in descending order

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Version: 2024-02-01

129
papers

5,005
citations

136885

32
h-index

95218

68
g-index

132
all docs

132
docs citations

132
times ranked

3785
citing authors

#	ARTICLE	IF	CITATIONS
1	An experimental study of objective pain measurement using pupillary response based on genetic algorithm and artificial neural network. <i>Applied Intelligence</i> , 2022, 52, 1145-1156.	3.3	12
2	Experimental Exploration of Objective Human Pain Assessment Using Multimodal Sensing Signals. <i>Frontiers in Neuroscience</i> , 2022, 16, 831627.	1.4	7
3	Understanding Hazards for Adverse Drug Events Among Older Adults After Hospital Discharge: Insights From Frontline Care Professionals. <i>Journal of Patient Safety</i> , 2022, 18, e1174-e1180.	0.7	5
4	Tools for Distributed Teamwork and Rapid Adaptation to Change: COVID-19 and Frontline Learning. <i>Joint Commission Journal on Quality and Patient Safety</i> , 2021, 47, 273-274.	0.4	0
5	A Personalized Spatial-Temporal Cold Pain Intensity Estimation Model Based on Facial Expression. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2021, 9, 1-8.	2.2	5
6	Human-Centered Design and Research in Deprescribing. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2021, 65, 398-402.	0.2	1
7	Patient Safety Learning Labs: What are we actually learning. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2020, 64, 593-597.	0.2	0
8	Engineering a foundation for partnership to improve medication safety during care transitions. <i>Journal of Patient Safety and Risk Management</i> , 2019, 24, 30-36.	0.4	16
9	Alternative computer mouse trigger designs in computerized physician order entry (CPOE) system to reduce clinicians'™ drop-down menu selection errors. <i>International Journal of Industrial Ergonomics</i> , 2019, 71, 14-19.	1.5	5
10	Designing a "Thinking System" to Reduce the Human Burden of Care Delivery. <i>EGEMS (Washington, DC)</i> , 2019, 7, 18.	2.0	3
11	Objective Pain Measurement based on Physiological Signals. <i>Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare</i> , 2018, 7, 240-247.	0.2	9
12	Distributed Cognition for Improving Cancer Care Coordination. <i>Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare</i> , 2018, 7, 25-29.	0.2	1
13	Towards a More Patient-Centered Approach to Medication Safety. <i>Journal of Patient Experience</i> , 2018, 5, 83-87.	0.4	22
14	Controlling Versus Supporting in a Sociotechnical System: A Commentary on Falzer (2018). <i>Journal of Cognitive Engineering and Decision Making</i> , 2018, 12, 215-218.	0.9	1
15	Utilizing a Human Factors Nursing Worksystem Improvement Framework to Increase Nurses'™ Time at the Bedside and Enhance Safety. <i>Journal of Nursing Administration</i> , 2017, 47, 94-100.	0.7	4
16	Human Factors in the Wild: SOLUTIONS for Mitigating the Negative Impact of Interruptions in Healthcare (Discussion Panel). <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2017, 61, 630-634.	0.2	1
17	Human factors engineering approaches to patient identification armband design. <i>Applied Ergonomics</i> , 2016, 52, 1-7.	1.7	7
18	Team Consistency and Occurrences of Prolonged Operative Time, Prolonged Hospital Stay, and Hospital Readmission: A Retrospective Analysis. <i>World Journal of Surgery</i> , 2015, 39, 890-896.	0.8	44

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19	Relative Risk of Prolonged Operative Times From Inconsistent Surgical Teams: Reply. <i>World Journal of Surgery</i> , 2015, 39, 2101-2101.	0.8	0
20	Evaluation of Medication Kit Processing Time Using Radio Frequency Identification (RFID) Technology. <i>Innovations in Pharmacy</i> , 2015, 6, .	0.2	1
21	Solitary fibrous tumors in abdomen and pelvis: Imaging characteristics and radiologic-pathologic correlation. <i>World Journal of Gastroenterology</i> , 2014, 20, 5066.	1.4	35
22	Development of a Tool to Measure User Experience Following Electronic Health Record Implementation. <i>Journal of Nursing Administration</i> , 2014, 44, 423-428.	0.7	14
23	<i>Building High Performance Surgical Teams</i>. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2014, 58, 748-752.	0.2	0
24	Does health care role and experience influence perception of safety culture related to preventing infections?. <i>American Journal of Infection Control</i> , 2013, 41, 638-641.	1.1	9
25	Human Factors in the Wild. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2013, 57, 650-653.	0.2	0
26	Teamwork and Collaboration. <i>Reviews of Human Factors and Ergonomics</i> , 2013, 8, 55-102.	0.5	32
27	Directed Use of the Internet for Health Information by Patients With Chronic Kidney Disease: Prospective Cohort Study. <i>Journal of Medical Internet Research</i> , 2013, 15, e251.	2.1	37
28	Using Human Factors And Systems Engineering To Improve Care Coordination. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2012, 56, 855-859.	0.2	6
29	Human Factors in the Wild: dilemmas and solutions from human factors engineers working in healthcare. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2012, 56, 897-900.	0.2	0
30	Learning about Healthcare: Preparing Human Factors Professionals for a Career in Healthcare. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2012, 56, 931-935.	0.2	0
31	A qualitative study of expert and team cognition on complex patients in the pediatric intensive care unit*. <i>Pediatric Critical Care Medicine</i> , 2012, 13, 278-284.	0.2	60
32	Implementing SBAR Across a Large Multihospital Health System. <i>Joint Commission Journal on Quality and Patient Safety</i> , 2012, 38, 261-268.	0.4	49
33	System engineering approach to documentation: An evaluation of the documentation process in a gastroenterology laboratory. <i>Journal of Biomedical Informatics</i> , 2012, 45, 591-597.	2.5	1
34	Web-Based Training Improves Knowledge about Central Line Bloodstream Infections. <i>Infection Control and Hospital Epidemiology</i> , 2011, 32, 1219-1222.	1.0	17
35	Speaking Systems Engineering: Bilingualism in Health Care Delivery Organizations. <i>Mayo Clinic Proceedings</i> , 2011, 86, 719-720.	1.4	14
36	Dynamic Three-Dimensional Scoring of Cerebral Perfusion Pressure and Intracranial Pressure Provides a Brain Trauma Index That Predicts Outcome in Patients With Severe Traumatic Brain Injury. <i>Journal of Trauma</i> , 2011, 70, 547-553.	2.3	20

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37	Use of pharmacy delivery robots in intensive care units. American Journal of Health-System Pharmacy, 2011, 68, 77-83.	0.5	21
38	Studying Clinical Communication to Inform Health Information Technology Design. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 646-649.	0.2	0
39	Trauma Resuscitation Errors and Computer-Assisted Decision Support. Archives of Surgery, 2011, 146, 218.	2.3	105
40	Using an interdisciplinary approach to identify factors that affect clinicians' compliance with evidence-based guidelines. Critical Care Medicine, 2010, 38, S282-S291.	0.4	108
41	Automated Measurement of "Pressure Times Time Dose" of Intracranial Hypertension Best Predicts Outcome After Severe Traumatic Brain Injury. Journal of Trauma, 2010, 69, 110-118.	2.3	70
42	Molecular study on copper-mediated tumor proteasome inhibition and cell death. International Journal of Oncology, 2010, 37, 81-87.	1.4	25
43	Gaze disruptions experienced by the laparoscopic operating surgeon. Surgical Endoscopy and Other Interventional Techniques, 2010, 24, 1240-1244.	1.3	31
44	Heart Rate and Pulse Pressure Variability are Associated With Intractable Intracranial Hypertension After Severe Traumatic Brain Injury. Journal of Neurosurgical Anesthesiology, 2010, 22, 296-302.	0.6	55
45	Supporting cognition and decision making in clinical work. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 821-825.	0.2	0
46	Incidence and types of non-ideal care events in an emergency department. Quality and Safety in Health Care, 2010, 19, i20-i25.	2.5	15
47	Supporting coordination in surgical suites. , 2010, , .		20
48	Avoiding Common Technical Errors in Subclavian Central Venous Catheter Placement. Journal of the American College of Surgeons, 2009, 208, 104-109.	0.2	56
49	User-designed information tools to support communication and care coordination in a trauma hospital. Journal of Biomedical Informatics, 2009, 42, 667-677.	2.5	65
50	Staff acceptance of video monitoring for coordination: a video system to support perioperative situation awareness. Journal of Clinical Nursing, 2009, 18, 2366-2371.	1.4	12
51	User Created Cognitive Artifacts: What can they Teach us about Design of Information Technology?. Proceedings of the Human Factors and Ergonomics Society, 2009, 53, 694-698.	0.2	1
52	Dissecting Multidisciplinary Cardiac Surgery Rounds. Annals of Thoracic Surgery, 2009, 88, 809-813.	0.7	24
53	Daily Multidisciplinary Discharge Rounds in a Trauma Center: A Little Time, Well Spent. Journal of Trauma, 2009, 66, 880-887.	2.3	31
54	Opportunities and challenges in improving surgical work flow. Cognition, Technology and Work, 2008, 10, 313-321.	1.7	11

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55	Outcomes from a Comprehensive Stroke Telemedicine Program. <i>Telemedicine Journal and E-Health</i> , 2008, 14, 339-344.	1.6	19
56	The Use of Distributed Displays of Operating Room Video When Real-Time Occupancy Status Was Available. <i>Anesthesia and Analgesia</i> , 2008, 106, 554-560.	1.1	21
57	Novel, Web-Based, Information-Exploration Approach for Improving Operating Room Logistics and System Processes. <i>Surgical Innovation</i> , 2008, 15, 7-16.	0.4	14
58	"Front-stage" and "back-stage" information. , 2008, , .		2
59	Safety in numbers: The value of counting adverse events*. <i>Critical Care Medicine</i> , 2008, 36, 2196-2197.	0.4	3
60	Video Technology to Advance Safety in the Operating Room and Perioperative Environment. <i>Surgical Innovation</i> , 2007, 14, 52-61.	0.4	36
61	Coordination of Appointments for Anesthesia Care Outside of Operating Rooms Using an Enterprise-Wide Scheduling System. <i>Anesthesia and Analgesia</i> , 2007, 105, 1701-1710.	1.1	54
62	Artifacts Use in Safety Critical Information Transfer: A Preliminary Study of the Information Arena. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2007, 51, 343-347.	0.2	2
63	Development of an Instrument for Assessing Trauma Team Performance. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2007, 51, 678-682.	0.2	1
64	Availability of Trauma Specialists in Level I and II Trauma Centers: A National Survey. <i>Journal of Trauma</i> , 2007, 63, 676-683.	2.3	11
65	Video-based training increases sterile-technique compliance during central venous catheter insertion*. <i>Critical Care Medicine</i> , 2007, 35, 1302-1306.	0.4	75
66	Systems Ambiguity: A Framework to Assess Risks and Predict Potential Systems Failures. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2007, 51, 626-630.	0.2	2
67	What Whiteboards in a Trauma Center Operating Suite Can Teach Us About Emergency Department Communication. <i>Annals of Emergency Medicine</i> , 2007, 50, 387-395.	0.3	100
68	Video as a Tool for Improving Tracheal Intubation Tasks for Emergency Medical and Trauma Care. <i>Annals of Emergency Medicine</i> , 2007, 50, 436-442.e1.	0.3	35
69	Emergent CSCW systems: The resolution and bandwidth of workplaces. <i>International Journal of Medical Informatics</i> , 2007, 76, S261-S266.	1.6	14
70	Multi-level strategies to achieve resilience for an organisation operating at capacity: a case study at a trauma centre. <i>Cognition, Technology and Work</i> , 2007, 9, 51-66.	1.7	48
71	Challenges to remote emergency decision-making for disasters or Homeland Security. <i>Cognition, Technology and Work</i> , 2007, 9, 15-24.	1.7	11
72	Negotiation and conflict in large scale collaboration: a preliminary field study. <i>Cognition, Technology and Work</i> , 2007, 9, 171-176.	1.7	14

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73	Communication and sense-making in intensive care: an observation study of multi-disciplinary rounds to design computerized supporting tools. AMIA ... Annual Symposium proceedings, 2007, , 329-33.	0.2	3
74	A web-based teamwork skills training program for emergency medical teams. Studies in Health Technology and Informatics, 2007, 125, 121-6.	0.2	0
75	A computing platform to support communication and sense-making in intensive care. AMIA ... Annual Symposium proceedings, 2007, , 1160.	0.2	0
76	Communication technology in trauma centers: A national survey. Journal of Emergency Medicine, 2006, 30, 21-28.	0.3	20
77	DYNAMIC MANAGEMENT OF PERIOPERATIVE PROCESSES: A MODELING AND VISUALIZATION PARADIGM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 647-652.	0.4	3
78	Video-based Ergonomic Analysis to Evaluate Thoracostomy Tube Placement Techniques. Journal of Trauma, 2006, 60, 227-232.	2.3	9
79	A Systematic Review of the Literature on Multidisciplinary Rounds to Design Information Technology. Journal of the American Medical Informatics Association: JAMIA, 2006, 13, 267-276.	2.2	698
80	Dynamic Delegation: Shared, Hierarchical, and Deindividualized Leadership in Extreme Action Teams. Administrative Science Quarterly, 2006, 51, 590-621.	4.8	554
81	A Distributed Cognition Approach to Understanding Information Transfer in Mission Critical Domains. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 924-928.	0.2	2
82	Real Video Clips Make a Real Difference: Video-Based Training for Improving Sterile Practices. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 894-898.	0.2	0
83	Advanced Visualization Platform for Surgical Operating Room Coordination: Distributed Video Board System. Surgical Innovation, 2006, 13, 129-135.	0.4	14
84	Understanding and Facilitating Collaboration in Healthcare. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 918-918.	0.2	0
85	Coordination in Fast-Response Organizations. Management Science, 2006, 52, 1155-1169.	2.4	648
86	Mentors Decrease Compliance with Best Sterile Practices during Central Venous Catheter Placement in the Trauma Resuscitation Unit. Surgical Infections, 2006, 7, 15-20.	0.7	12
87	Top barriers and facilitators to nurses' PDA adoption. AMIA ... Annual Symposium proceedings, 2006, , 1016.	0.2	0
88	A preliminary field study of patient flow management in a trauma center for designing information technology. AMIA ... Annual Symposium proceedings, 2006, , 937.	0.2	0
89	An Algorithm for Processing Vital Sign Monitoring Data to Remotely Identify Operating Room Occupancy in Real-Time. Anesthesia and Analgesia, 2005, 101, 823-829.	1.1	54
90	A review and a framework of handheld computer adoption in healthcare. International Journal of Medical Informatics, 2005, 74, 409-422.	1.6	248

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91	Artifacts and collaborative work in healthcare: methodological, theoretical, and technological implications of the tangible. <i>Journal of Biomedical Informatics</i> , 2005, 38, 26-33.	2.5	139
92	Handbooks or Mentors? the Role of a Resident Physician Manual in Resident Education. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2005, 49, 1474-1477.	0.2	0
93	Challenges to Remote Emergency Decision-Making for Disasters or Homeland Security. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2005, 49, 544-547.	0.2	1
94	Work coordination, workflow, and workarounds in a medical context. , 2005, , .		84
95	Introduction to the special issue on Video-based research in high risk settings: methodology and experience. <i>Cognition, Technology and Work</i> , 2004, 6, 127.	1.7	8
96	Video task analysis in high performance teams. <i>Cognition, Technology and Work</i> , 2004, 6, 139.	1.7	20
97	Adaptive leadership in trauma resuscitation teams: a grounded theory approach to video analysis. <i>Cognition, Technology and Work</i> , 2004, 6, 158.	1.7	43
98	Shortening time to stroke treatment using ambulance telemedicine: TeleBAT. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2004, 13, 148-154.	0.7	85
99	Organizational-Historical Analysis of the "Failure to Respond to Alarm" Problems. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2004, 34, 772-778.	3.4	30
100	Information Accuracy and Sampling Effort: A Field Study of Surgical Scheduling Coordination. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2004, 34, 764-771.	3.4	5
101	Making Management Decisions on the Day of Surgery Based on Operating Room Efficiency and Patient Waiting Times. <i>Anesthesiology</i> , 2004, 101, 1444-1453.	1.3	219
102	Improving Operating Room Coordination. <i>Journal of Nursing Administration</i> , 2004, 34, 93-100.	0.7	71
103	Using Wireless Technologies to Improve Information Flow for Interhospital Transfers of Critical Care Patients. <i>Critical Care Nurse</i> , 2004, 24, 66-73.	0.5	2
104	Collaborative Management of Complex Coordination Systems: Operating Room Schedule Coordination. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2003, 47, 1521-1525.	0.2	14
105	Team Communication Patterns as Measures of Team Processes: Exploring the Effects of Task Urgency and Shared Team Experience. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2003, 47, 1502-1506.	0.2	16
106	Observational Analysis of Video Records of Team Performance. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2003, 47, 1493-1497.	0.2	1
107	Scenario-Based Teamwork Skills Training for Geographically Distributed Teams. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2003, 47, 1526-1530.	0.2	0
108	Video as Research Data Conference. <i>Anesthesiology</i> , 2003, 99, 245-245.	1.3	0

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109	Video acquisition and audio system network (VAASNET) for analysis of workplace safety performance. <i>Biomedical Instrumentation and Technology</i> , 2003, 37, 285-91.	0.2	5
110	Video Clips as a Data Source for Safety Performance. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2002, 46, 1414-1417.	0.2	2
111	Human Factors Research in Patient Safety: A Candid Assessment. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2002, 46, 1462-1466.	0.2	1
112	Cognitive Properties of a Whiteboard: A Case Study in a Trauma Centre. , 2001, , 259-278.		26
113	Auditory Alarms: From Alerting to Informing. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000, 44, 223-226.	0.2	13
114	A Framework for Epistemological Analysis in Empirical (Laboratory and Field) Studies. <i>Human Factors</i> , 2000, 42, 87-101.	2.1	40
115	Managing the Monitors: An Analysis of Alarm Silencing Activities during an Anesthetic Procedure. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000, 44, 250-253.	0.2	9
116	TeleBAT: Mobile telemedicine for the brain attack team. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2000, 9, 128-135.	0.7	57
117	Monitoring Behavior: A Pilot Study Using an Ambulatory Eye-Tracker in Surgical Operating Rooms. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 1999, 43, 850-854.	0.2	8
118	Video Analysis for Performance Modeling in Real Environments: Methods and Lessons Learnt. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 1999, 43, 237-241.	0.2	5
119	An Analysis of Problems with Auditory Alarms: Defining the Roles of Alarms in Process Monitoring Tasks. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 1999, 43, 256-260.	0.2	18
120	Information Acquisition from Audio-Video-Data Sources: An Experimental Study on Remote Diagnosis. <i>Telemedicine and E-Health</i> , 1999, 5, 139-155.	1.3	14
121	Visual Scanning Patterns during Remote Diagnosis. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 1998, 42, 272-276.	0.2	0
122	Team Coordination and Breakdowns in a Real-Life Stressful Environment. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 1998, 42, 186-190.	0.2	16
123	SPECIAL SECTION: Task Complexity in Emergency Medical Care and Its Implications for Team Coordination. <i>Human Factors</i> , 1996, 38, 636-645.	2.1	122
124	Video Analysis of Prolonged Uncorrected Esophageal Intubation. <i>Anesthesiology</i> , 1996, 84, 1494-1503.	1.3	26
125	SPECIAL SECTION: Comparison of Self-Reporting of Deficiencies in Airway Management with Video Analyses of Actual Performance. <i>Human Factors</i> , 1996, 38, 623-635.	2.1	76
126	Distributed planning over time and people: balancing sampling effort and information accuracy. , 0, , .		1

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127	Distributed monitoring and a video-based toolset. , 0, , .		1
128	Distributed planning and monitoring in a dynamic environment: trade-offs of information access and privacy. , 0, , .		0
129	Cultural and institutional conditions for high reliability teams. , 0, , .		1