

Sarah C Sharples

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

2,874
citations

304602

22
h-index

243529

44
g-index

112
all docs

112
docs citations

112
times ranked

2935
citing authors

#	ARTICLE	IF	CITATIONS
1	Virtual reality induced symptoms and effects (VRISE): Comparison of head mounted display (HMD), desktop and projection display systems. <i>Displays</i> , 2008, 29, 58-69.	2.0	521
2	Voice Interfaces in Everyday Life. , 2018, , .		396
3	Health and safety implications of virtual reality: a review of empirical evidence. <i>Applied Ergonomics</i> , 2002, 33, 251-271.	1.7	200
4	“Making my own luck”: Serendipity strategies and how to support them in digital information environments. <i>Journal of the Association for Information Science and Technology</i> , 2014, 65, 2179-2194.	1.5	93
5	The importance of usability in product choice: A mobile phone case study. <i>Ergonomics</i> , 2009, 52, 1514-1528.	1.1	82
6	Physical ergonomics of virtual environment use. <i>Applied Ergonomics</i> , 1999, 30, 79-90.	1.7	77
7	Physiological Parameter Response to Variation of Mental Workload. <i>Human Factors</i> , 2018, 60, 31-56.	2.1	72
8	Medical device design in context: A model of user-device interaction and consequences. <i>Displays</i> , 2012, 33, 221-232.	2.0	63
9	Static posture tests for the assessment of postural instability after virtual environment use. <i>Brain Research Bulletin</i> , 1998, 47, 459-464.	1.4	61
10	Impact of automation: Measurement of performance, workload and behaviour in a complex control environment. <i>Applied Ergonomics</i> , 2015, 47, 52-64.	1.7	47
11	3D printing system: an innovation for small-scale manufacturing in home settings? “early adopters of 3D printing systems in China. <i>International Journal of Production Research</i> , 2016, 54, 6017-6032.	4.9	47
12	The effect of design on the usability and real world effectiveness of medical devices: A case study with adolescent users. <i>Applied Ergonomics</i> , 2013, 44, 799-810.	1.7	45
13	Development of design principles for automated systems in transport control. <i>Ergonomics</i> , 2012, 55, 37-54.	1.1	44
14	A head mounted augmented reality design practice for maintenance assembly: Toward meeting perceptual and cognitive needs of AR users. <i>Applied Ergonomics</i> , 2022, 98, 103597.	1.7	38
15	Physiological indicators of task demand, fatigue, and cognition in future digital manufacturing environments. <i>International Journal of Human Computer Studies</i> , 2021, 145, 102522.	3.7	36
16	The role of situation awareness for understanding signalling and control in rail operations. <i>Theoretical Issues in Ergonomics Science</i> , 2010, 11, 84-98.	1.0	35
17	Understanding Is Key: An Analysis of Factors Pertaining to Trust in a Real-World Automation System. <i>Human Factors</i> , 2018, 60, 477-495.	2.1	35
18	Manufacturing in the cloud: A human factors perspective. <i>International Journal of Industrial Ergonomics</i> , 2016, 55, 12-21.	1.5	34

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19	Measuring the effect of think aloud protocols on workload using fNIRS. , 2014, , .		32
20	Using Mobile Phones in Pub Talk. , 2016, , .		29
21	See I told you I was taking it! â€“ Attitudes of adolescents with asthma towards a device monitoring their inhaler use: Implications for future design. Applied Ergonomics, 2017, 58, 224-237.	1.7	27
22	Workload Alertsâ€”Using Physiological Measures of Mental Workload to Provide Feedback During Tasks. ACM Transactions on Computer-Human Interaction, 2018, 25, 1-30.	4.6	27
23	Journey decision making: the influence on drivers of dynamic information presented on variable message signs. Cognition, Technology and Work, 2016, 18, 303-317.	1.7	26
24	How Stress and Mental Workload are Connected. , 2019, , .		25
25	Human centred design of 3-D interaction devices to control virtual environments. International Journal of Human Computer Studies, 2006, 64, 207-220.	3.7	22
26	Datalink in air traffic management: Human factors issues in communications. Applied Ergonomics, 2007, 38, 473-480.	1.7	22
27	Electronic Monitoring of Adherence to Inhaled Medication in Asthma. Current Respiratory Medicine Reviews, 2014, 10, 50-63.	0.1	22
28	What are the pros and cons of electronically monitoring inhaler use in asthma? A multistakeholder perspective. BMJ Open Respiratory Research, 2016, 3, e000159.	1.2	22
29	A cross-sector analysis of human and organisational factors in the deployment of data-driven predictive maintenance. Information Systems and E-Business Management, 2018, 16, 627-648.	2.2	22
30	Encouraging serendipity in research: Designing technologies to support connection-making. International Journal of Human Computer Studies, 2016, 89, 1-23.	3.7	21
31	Comparison of 2D and 3D representations for visualising telecommunication usage. Behaviour and Information Technology, 2003, 22, 185-201.	2.5	20
32	Flightdeck and Air Traffic Control Collaboration Evaluation (FACE): Evaluating aviation communication in the laboratory and field. Applied Ergonomics, 2007, 38, 399-407.	1.7	20
33	Examining the Reliability of Using fNIRS in Realistic HCI Settings for Spatial and Verbal Tasks. , 2015, , .		20
34	A survey-based cross-sectional study of doctors' expectations and experiences of non-technical skills for Out of Hours work. BMJ Open, 2015, 5, e006102-e006102.	0.8	19
35	Evaluation of virtual reality products and applications from individual, organizational and societal perspectivesâ€”The â€œVIEWâ€-case study. International Journal of Human Computer Studies, 2006, 64, 251-266.	3.7	18
36	Required navigation performance for connected and autonomous vehicles: where are we now and where are we going?. Transportation Planning and Technology, 2018, 41, 104-118.	0.9	18

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37	Developing a Rail Ergonomics Questionnaire (REQUEST). <i>Applied Ergonomics</i> , 2009, 40, 216-229.	1.7	17
38	Practical use of work analysis to support rail electrical control rooms: A case of alarm handling. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2013, 227, 148-160.	1.3	17
39	Developing speech input for virtual reality applications: A reality based interaction approach. <i>International Journal of Human Computer Studies</i> , 2011, 69, 3-8.	3.7	16
40	The psychosocial impact of home use medical devices on the lives of older people: a qualitative study. <i>BMC Health Services Research</i> , 2013, 13, 467.	0.9	16
41	A framework to support human factors of automation in railway intelligent infrastructure. <i>Ergonomics</i> , 2014, 57, 387-402.	1.1	16
42	The dichotomy of the application of a systems approach in UK healthcare the challenges and priorities for implementation. <i>Ergonomics</i> , 2018, 61, 15-25.	1.1	16
43	Academics' responses to encountered information: Context matters. <i>Journal of the Association for Information Science and Technology</i> , 2016, 67, 1883-1903.	1.5	15
44	An observation tool to study air traffic control and flightdeck collaboration. <i>Applied Ergonomics</i> , 2007, 38, 425-435.	1.7	14
45	Factor interaction influences on human performance in air traffic control: The need for a multifactorial model. <i>Work</i> , 2012, 41, 159-166.	0.6	14
46	Visual scenario analysis: understanding human factors of planning in rail engineering. <i>Production Planning and Control</i> , 2010, 21, 386-398.	5.8	13
47	Curve shape and curvature perception through interactive sonification. <i>ACM Transactions on Applied Perception</i> , 2012, 9, 1-19.	1.2	13
48	Hearing the way: Requirements and preferences for technology-supported navigation aids. <i>Applied Ergonomics</i> , 2015, 48, 56-69.	1.7	13
49	Performance of new participants in virtual environments: The Nottingham tool for assessment of interaction in virtual environments (NAAVE). <i>International Journal of Human Computer Studies</i> , 2006, 64, 240-250.	3.7	12
50	Attitudes and opinions of railway signallers and related staff, using the Rail Ergonomics Questionnaire (REQUEST). <i>Applied Ergonomics</i> , 2009, 40, 230-238.	1.7	12
51	Seeing the woods for the trees: the problem of information inefficiency and information overload on operator performance. <i>Cognition, Technology and Work</i> , 2017, 19, 561-570.	1.7	12
52	A context-based study of serendipity in information research among Chinese scholars. <i>Journal of Documentation</i> , 2018, 74, 526-551.	0.9	12
53	Practical evaluations of real user company needs for visualization technologies. <i>International Journal of Human Computer Studies</i> , 2006, 64, 267-279.	3.7	10
54	Medical device design for adolescent adherence and developmental goals: a case study of a cystic fibrosis physiotherapy device. <i>Patient Preference and Adherence</i> , 2014, 8, 301.	0.8	10

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55	The Impact of an Electronic Patient Bedside Observation and Handover System on Clinical Practice: Mixed-Methods Evaluation. <i>JMIR Medical Informatics</i> , 2019, 7, e11678.	1.3	10
56	Not a minor problem: involving adolescents in medical device design research. <i>Theoretical Issues in Ergonomics Science</i> , 2014, 15, 181-192.	1.0	9
57	Developing a Graphical Route Information Panel (GRIP) for use on the UK motorway network. The first steps. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2014, 27, 133-149.	1.8	9
58	Expert knowledge elicitation to generate human factors guidance for future European Rail Traffic Management System (ERTMS) train driving models. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2017, 231, 1141-1149.	1.3	8
59	Identifying rail asset maintenance processes: a human-centric and sensemaking approach. <i>Cognition, Technology and Work</i> , 2018, 20, 73-92.	1.7	8
60	Decision-making within missing person search. <i>Cognition, Technology and Work</i> , 2018, 20, 665-680.	1.7	8
61	Lived Experiences of Mental Workload in Everyday Life. , 2022, , .		8
62	Changing the role of the air traffic controller: How will free flight affect memory for spatial events?. <i>Applied Ergonomics</i> , 2007, 38, 457-463.	1.7	7
63	Rail signallers' assessments of their satisfaction with different shift work systems. <i>Ergonomics</i> , 2008, 51, 1656-1671.	1.1	7
64	Systems Change in Transport Control: Applications of Cognitive Work Analysis. <i>The International Journal of Aviation Psychology</i> , 2011, 21, 62-84.	0.7	7
65	The impact of map orientation and generalisation on congestion decisions: a comparison of schematic-egocentric and topographic-allocentric maps. <i>Ergonomics</i> , 2011, 54, 700-715.	1.1	7
66	Evaluating the iterative development of VR/AR human factors tools for manual work. <i>Work</i> , 2012, 41, 2208-2215.	0.6	7
67	Validating a low cost approach for predicting human responses to emergency situations. <i>Applied Ergonomics</i> , 2013, 44, 27-34.	1.7	7
68	Disruption management processes during emergencies on the railways. <i>International Journal of Human Factors and Ergonomics</i> , 2013, 2, 175.	0.2	7
69	Out of hours workload management: Bayesian inference for decision support in secondary care. <i>Artificial Intelligence in Medicine</i> , 2016, 73, 34-44.	3.8	7
70	Interactive Sonification of Curve Shape and Curvature Data. <i>Lecture Notes in Computer Science</i> , 2009, , 51-60.	1.0	7
71	Participant Experiences of Mobile Device-Based Diary Studies. <i>International Journal of Mobile Human Computer Interaction</i> , 2013, 5, 62-83.	0.1	7
72	Understanding factors that influence unintentional insider threat: a framework to counteract unintentional risks. <i>Cognition, Technology and Work</i> , 2022, 24, 393-421.	1.7	7

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73	Investigating presentation of rail-specific spatial information on handheld computer screens. <i>Personal and Ubiquitous Computing</i> , 2012, 16, 1051-1064.	1.9	6
74	Applications, value and barriers of common data frameworks in the rail industry of Great Britain. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2013, 227, 693-703.	1.3	6
75	Designing a Semantic Sketchbook to Create Opportunities for Serendipity. , 2012, , .		6
76	Human Factors of Virtual Reality “Where are We Now?. , 2007, , 173-186.		5
77	The need for a multi-factorial model of safe human performance in air traffic control. , 2010, , .		5
78	Usability, human factors and geographic information. <i>Applied Ergonomics</i> , 2013, 44, 853-854.	1.7	5
79	NightShift simulation to train newly qualified doctors in non-technical skills: a feasibility study. <i>Future Hospital Journal</i> , 2016, 3, 94-98.	0.2	5
80	Alarm handling for health monitoring: Operator strategies used in an electrical control room of a rail network. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2016, 230, 1415-1428.	1.3	5
81	Modelling decision-making within rail maintenance control rooms. <i>Cognition, Technology and Work</i> , 2021, 23, 255-271.	1.7	5
82	The attribution of success when using navigation aids. <i>Ergonomics</i> , 2015, 58, 426-433.	1.1	4
83	PRO: confronting resistance to rule-based medicine is essential to improving outcomes. <i>Thorax</i> , 2015, 70, 110-111.	2.7	4
84	Unsupervised labelling of sequential data for location identification in indoor environments. <i>Expert Systems With Applications</i> , 2016, 61, 386-393.	4.4	4
85	Structured Observations of Automation Use. , 2008, , 552-557.		4
86	Interaction with a desktop virtual environment: a 2D view into a 3D world. <i>Virtual Reality</i> , 2004, 8, 17.	4.1	3
87	Design Requirements for Effective Hybrid Decision Making with Evolvable Assembly Systems. , 2016, , .		3
88	The field becomes the laboratory? The impact of the contextual digital footprint on the discipline of E/HF. <i>Ergonomics</i> , 2017, 60, 270-283.	1.1	3
89	Exploring the Relationship between Location and Behaviour in Out of Hours Hospital Care. <i>Communications in Computer and Information Science</i> , 2014, , 395-400.	0.4	3
90	Workload II: A Future Paradigm for Analysis and Measurement. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 489-498.	0.5	3

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91	Understanding the Impact of Rail Automation. Lecture Notes in Computer Science, 2009, , 590-599.	1.0	3
92	Developing a simulator to help junior doctors deal with night shifts. , 2013, , 289-296.		3
93	Is THIS â€˜Delightâ€™?. , 2012, , .		3
94	'Night Shift': A Task Simulation to Improve On-Call Prioritisation, Self-Management, Communication, and Route Planning Skills. , 2014, , .		2
95	Seeing the woods for the trees: The problem of information inefficiency and information overload on operator performance. IFAC-PapersOnLine, 2016, 49, 603-608.	0.5	2
96	Commentary: Analysis, investigation and judgement: The post-hoc application of human factors analyses to incidents. Applied Ergonomics, 2017, 59, 526-527.	1.7	2
97	Natural locomotion based on a reduced set of inertial sensors: Decoupling body and head directions indoors. PLoS ONE, 2018, 13, e0195191.	1.1	2
98	An interview analysis of coordination behaviours in Outâ€‘ofâ€‘Hours secondary care. Applied Ergonomics, 2019, 81, 102861.	1.7	2
99	Young adultsâ€™ attitudes to sharing whole-genome sequencing information: a university-based survey. BMC Medical Genomics, 2019, 12, 55.	0.7	2
100	Probing cultural differences in product design and consumer evaluation using repertory grid analysis. International Journal of Technology and Design Education, 2022, 32, 1875-1894.	1.7	2
101	Investigating the impact of emotions on perceiving serendipitous information encountering. Journal of the Association for Information Science and Technology, 0, , .	1.5	2
102	Novel Interaction Styles, Complex Working Contexts and the Role of Usability. , 2010, , 281-303.		2
103	Ethical Concerns and Perceptions of Consumer Neurotechnology from Lived Experiences of Mental Workload Tracking. , 2022, , .		2
104	Schematic maps in MobileGIS environments: an automated simulated annealing based case study. Cognitive Processing, 2006, 7, 7-8.	0.7	1
105	Exploring the requirements for multimodal interaction for mobile devices in an end-to-end journey context. Work, 2012, 41, 1132-1139.	0.6	1
106	Journey decision making. , 2013, , .		1
107	Computer Aided Search Tasks in a Naturally Occurring Environment. Lecture Notes in Computer Science, 2021, , 261-279.	1.0	0
108	Development of a Technique for Predicting the Human Response to an Emergency Situation. Lecture Notes in Computer Science, 2009, , 22-31.	1.0	0

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109	The Influence of Shared-Representation on Shared Mental Models in Virtual Teams. Lecture Notes in Computer Science, 2009, , 269-278.	1.0	0