Chris Baber

List of Publications by Year in descending order

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147801 175258 3,566 165 31 52 h-index citations g-index papers 186 186 186 2303 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	The risks associated with Artificial General Intelligence: A systematic review. Journal of Experimental and Theoretical Artificial Intelligence, 2023, 35, 649-663.	2.8	34
2	Making ergonomics accountable: Reliability, validity and utility in ergonomics methods. Applied Ergonomics, 2022, 98, 103583.	3.1	9
3	Formalizing Distributed Situation Awareness in Multi-Agent Networks. IEEE Transactions on Human-Machine Systems, 2022, 52, 1166-1175.	3 . 5	4
4	Purposeful tool use in early lithic technologies. Adaptive Behavior, 2021, 29, 169-180.	1.9	2
5	The look of writing in reading. Graphetic empathy in making and perceiving graphic traces. Language Sciences, 2021, 84, 101363.	1.0	1
6	Visualising alignment to support students' judgment of confidence in open learner models. User Modeling and User-Adapted Interaction, 2020, 30, 159-194.	3.8	1
7	The effect of known decision support reliability on outcome quality and visual information foraging in joint decision making. Applied Ergonomics, 2020, 86, 103102.	3.1	6
8	Using the Toulmin Model of Argumentation to Explore the Differences in Human and Automated Hiring Decisions. , 2020, , .		0
9	Human-agents Interactions in Multi-Agent Systems: A Case Study of Human-UAVs Team for Forest Fire Lookouts. , 2020, , .		1
10	Conflicts Resolution and Situation Awareness in Heterogeneous Multi-agent Missions using Publish-subscribe Technique and Inferential Reasoning. , 2020, , .		1
11	Handling Uncertainties in Distributed Constraint Optimization Problems using Bayesian Inferential Reasoning. , 2020, , .		O
12	What the Jeweller's Hand Tells the Jeweller's Brain: Tool Use, Creativity and Embodied Cognition. Philosophy and Technology, 2019, 32, 283-302.	4.3	24
13	Drilling Into Dashboards: Responding to Computer Recommendation in Fraud Analysis. IEEE Transactions on Human-Machine Systems, 2019, 49, 633-641.	3.5	4
14	Ecological Interface Design, the Proximity Compatibility Principle, and Automation Reliability in Road Traffic Management. IEEE Transactions on Human-Machine Systems, 2019, 49, 241-249.	3 . 5	12
15	Editorial: The cybernetic return in Human Factors and Ergonomics. Applied Ergonomics, 2019, 79, 86-90.	3.1	6
16	The Cybernetic Return in Human Factors/Ergonomics (HFE). Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 894-898.	0.3	1
17	Thinking with Hands, Acting with Minds: Embodied Cognition and Creative Practice. Advances in Intelligent Systems and Computing, 2019, , 225-234.	0.6	2
18	The effect of four user interface concepts on visual scan pattern similarity and information foraging in a complex decision making task. Applied Ergonomics, 2018, 70, 6-17.	3.1	16

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19	Automation Reliability and Decision Strategy: A Sequential Decision Making Model for Automation Interaction. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 144-148.	0.3	7
20	A resources model for distributed sensemaking. Cognition, Technology and Work, 2018, 20, 651-664.	3.0	5
21	Designing Smart Objects to Support Affording Situations: Exploiting Affordance Through an Understanding of Forms of Engagement. Frontiers in Psychology, 2018, 9, 292.	2.1	6
22	EAST in Energy Distribution Operations. , 2018, , 65-81.		0
23	EAST in Railway Maintenance. , 2018, , 109-133.		0
24	EAST in Air Traffic Control. , 2018, , 19-38.		0
25	EAST in Military Command and Control. , 2018, , 39-63.		0
26	Workflows and individual differences during visually guided routine tasks in a road traffic management control room. Applied Ergonomics, 2017, 61, 79-89.	3.1	8
27	A Cognitive Model of How People Make Decisions Through Interaction with Visual Displays. , 2017, , .		25
28	A Prototype for Credit Card Fraud Management. , 2017, , .		17
29	Intelligent Adaptive Systems: an interaction-centred design perspective. Ergonomics, 2017, 60, 1458-1459.	2.1	6
30	The Impact of Cervical Musculoskeletal Disorders on UK Consultant Plastic Surgeons. Annals of Plastic Surgery, 2017, 78, 602-610.	0.9	17
31	After phrenology: neural reuse and the interactive brain. Ergonomics, 2017, 60, 1173-1174.	2.1	O
32	Joint Human-Automation Decision Making in Road Traffic Management. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 385-389.	0.3	2
33	Towards the Quantification of Human-Robot Imitation Using Wearable Inertial Sensors. , 2017, , .		1
34	Demonstration of a Prototype for Credit Card Fraud Management. , 2017, , .		0
35	Predicting upper limb discomfort for plastic surgeons wearing loupes based on multi-objective optimization. Cogent Engineering, 2017, 4, 1398702.	2.2	4
36	Coaching through smart objects. , 2017, , .		1

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37	Towards the Analysis of Movement Variability in Human-Humanoid Imitation Activities., 2017,,.		O
38	Creating Affording Situations: Coaching through Animate Objects. Sensors, 2017, 17, 2308.	3.8	7
39	Spontaneous bimanual independence during parallel tapping and sawing. PLoS ONE, 2017, 12, e0178188.	2.5	3
40	The Dynamics of Distributed Situation Awareness. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 277-281.	0.3	4
41	Distributed Cognition at the Crime Scene. , 2017, , 43-59.		1
42	Evaluating the Effect of Uncertainty Visualisation in Open Learner Models on Students' Metacognitive Skills. Lecture Notes in Computer Science, 2017, , 15-27.	1.3	11
43	Movement consistency during repetitive tool use action. PLoS ONE, 2017, 12, e0173281.	2.5	3
44	Student Preferences for Visualising Uncertainty in Open Learner Models. Lecture Notes in Computer Science, 2017, , 445-449.	1.3	1
45	Predicting transaction time for dual-tasks using critical path. , 2017, , 223-230.		0
46	Human Factors Methods Integration: A Case Study in the Railway Industry. , 2017, , 521-542.		0
47	Macrocognition in Day-To-Day Police Incident Response. Frontiers in Psychology, 2016, 7, 293.	2.1	1
48	A Systematic Approach for Developing Decision Aids: From Cognitive Work Analysis to Prototype Design and Development. Systems Engineering, 2016, 19, 79-100.	2.7	13
49	Collaborative sense-making during simulated Intelligence Analysis Exercises. International Journal of Human Computer Studies, 2016, 86, 94-108.	5.6	10
50	A comparison of shared and distributed situation awareness in teams through the use of agent-based modelling. Theoretical Issues in Ergonomics Science, 2016, 17, 8-41.	1.8	9
51	Understanding movement variability of simplistic gestures using an inertial sensor., 2016,,.		O
52	Thinking Through Tools: What Can Tool-Use Tell Us About Distributed Cognition?. Studies in Logic, Grammar and Rhetoric, 2015, 41, 25-40.	0.1	4
53	Missing Key Information. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 200-204.	0.3	0
54	Using 1/f Scaling to Study Variability and Dexterity in Simple Tool using Tasks. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 431-435.	0.3	3

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55	Combining network analysis with Cognitive Work Analysis: insights into social organisational and cooperation analysis. Ergonomics, 2015, 58, 434-449.	2.1	20
56	Objective classification of performance in the use of a piercing saw in jewellery making. Applied Ergonomics, 2015, 51, 211-221.	3.1	7
57	Modelling elderly cardiac patients decision making using Cognitive Work Analysis: Identifying requirements for patient decision aids. International Journal of Medical Informatics, 2015, 84, 430-443.	3.3	11
58	The application of SHERPA (Systematic Human Error Reduction and Prediction Approach) in the development of compensatory cognitive rehabilitation strategies for stroke patients with left and right brain damage. Ergonomics, 2015, 58, 75-95.	2.1	30
59	Rule and theme discovery in human interactions with an 'internet of things'., 2015,,.		4
60	Tool use as distributed cognition: how tools help, hinder and define manual skill. Frontiers in Psychology, 2014, 5, 116.	2.1	27
61	Scalable Proactive Event-Driven Decision Making. IEEE Technology and Society Magazine, 2014, 33, 35-41.	0.8	25
62	Intelligent Assistive System Using Real-Time Action Recognition for Stroke Survivors. , 2014, , .		12
63	Visualizing interactive narratives. , 2014, , .		12
64	Designing visual analytics for collaborative activity. , 2014, , 327-334.		3
65	Elderly Cardiac Patients' Medication Management: Patient Day-to-Day Needs and Review of Medication Management System., 2013,,.		8
66	Using social network analysis and agent-based modelling to explore information flow using common operational pictures for maritime search and rescue operations. Ergonomics, 2013, 56, 889-905.	2.1	61
67	Distributed Cognition at the Crime Scene. , 2013, , 131-146.		2
68	Application of Human Error Identification (HEI) Techniques to Cognitive Rehabilitation in Stroke Patients with Limb Apraxia. Lecture Notes in Computer Science, 2013, , 463-471.	1.3	9
69	Expertise in Crime Scene Examination. Human Factors, 2012, 54, 413-424.	3.5	27
70	Patientâ€eentred cardio vascular disease management – endâ€user perceptions. Journal of Assistive Technologies, 2012, 6, 105-122.	0.8	4
71	Creating and using interactive narratives. , 2012, , .		13
72	Multi-agency operations: Cooperation during flooding. Applied Ergonomics, 2012, 43, 38-47.	3.1	78

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73	End-User Perception Towards Pervasive Cardiac Healthcare Services: Benefits, Acceptance, Adoption, Risks, Security, Privacy and Trust., 2011, , .		14
74	An evaluation of multimodal interactions with technology while learning science concepts. British Journal of Educational Technology, 2011, 42, 266-290.	6.3	43
75	Multimodal control of sensors on multiple simulated unmanned vehicles. Ergonomics, 2011, 54, 792-805.	2.1	12
76	A Human Factors Study of Technology Acceptance of a Prototype Mobile Augmented Reality System for Science Education. Advanced Science Letters, 2011, 4, 3342-3352.	0.2	18
77	An approach to designing interactive decision aid for cardiac patients. , 2011, , .		2
78	Distributed cognition at the crime scene. Al and Society, 2010, 25, 423-432.	4.6	15
79	From ethnography to the EAST method: A tractable approach for representing distributed cognition in Air Traffic Control. Ergonomics, 2010, 53, 184-197.	2.1	67
80	Supporting Naturalistic Decision Making Through Location-Based Photography: A Study of Simulated Military Reconnaissance. International Journal of Human-Computer Interaction, 2010, 26, 147-172.	4.8	6
81	Mobile technology for crime scene examination. International Journal of Human Computer Studies, 2009, 67, 464-474.	5.6	17
82	Using an integrated methods approach to analyse the emergent properties of military command and control. Applied Ergonomics, 2009, 40, 636-647.	3.1	27
83	The Use of Narrative in the Prototyping of Serious Games for Criminal Investigation. , 2009, , .		0
84	Distributed situation awareness in an Airborne Warning and Control System: application of novel ergonomics methodology. Cognition, Technology and Work, 2008, 10, 221-229.	3.0	48
85	Development of a generic activities model of command and control. Cognition, Technology and Work, 2008, 10, 209-220.	3.0	9
86	WESTT (workload, error, situational awareness, time and teamwork): an analytical prototyping system for command and control. Cognition, Technology and Work, 2008, 10, 199-207.	3.0	20
87	What really is going on? Review of situation awareness models for individuals and teams. Theoretical Issues in Ergonomics Science, 2008, 9, 297-323.	1.8	271
88	A mobile health device to help people with severe allergies. , 2008, , .		7
89	Measuring team skills in crime scene investigation: exploring ad hoc teams. Ergonomics, 2008, 51, 1463-1488.	2.1	19
90	Representing situation awareness in collaborative systems: A case study in the energy distribution domain. Ergonomics, 2008, 51, 367-384.	2.1	82

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91	Modelling of human alarm handling response times: a case study of the Ladbroke Grove rail accident in the UK. Ergonomics, 2008, 51, 423-440.	2.1	34
92	Effect of Head-Mounted Displays on Posture. Human Factors, 2007, 49, 797-807.	3.5	45
93	Multi-Platform Crime Scene Investigation Field Tool. , 2007, , .		2
94	Assessing the physical loading of wearable computers. Applied Ergonomics, 2007, 38, 237-247.	3.1	18
95	Uses of accelerometer data collected from a wearable system. Personal and Ubiquitous Computing, 2007, 11, 117-132.	2.8	48
96	Supporting Crime Scene Investigation. , 2007, , 103-116.		2
97	Event analysis of systemic teamwork (EAST): a novel integration of ergonomics methods to analyse C4i activity. Ergonomics, 2006, 49, 1345-1369.	2.1	101
98	Assessing the Wearability of Wearable Computers. Proceedings International Symposium on Wearable Computers, 2006, , .	0.0	37
99	Distributed situation awareness in dynamic systems: theoretical development and application of an ergonomics methodology. Ergonomics, 2006, 49, 1288-1311.	2.1	370
100	Command and control in emergency services operations: a social network analysis. Ergonomics, 2006, 49, 1204-1225.	2.1	130
101	The ergonomics of command and control. Ergonomics, 2006, 49, 1131-1138.	2.1	21
102	Crime scene investigation as distributed cognition. Pragmatics and Cognition, 2006, 14, 357-385.	0.4	37
103	Cognitive aspects of tool use. Applied Ergonomics, 2006, 37, 3-15.	3.1	35
104	Analyzing the Role of Communications Technology in C4i Scenarios: A Distributed Cognition Approach. Journal of Intelligent Systems, 2006, 15, .	1.6	3
105	The design of the SensVest. Personal and Ubiquitous Computing, 2005, 9, 6-19.	2.8	40
106	MsSAM: Methods to Support Shared Analysis for Mobile Investigators. A Task Analysis to Support the Integration of Wearable Computer Technology into Crime Scene Investigation. Measurement and Control, 2005, 38, 83-87.	1.8	3
107	A Tool to Assess the Comfort of Wearable Computers. Human Factors, 2005, 47, 77-91.	3.5	111
108	Validating task analysis for error identification: reliability and validity of a human error prediction technique. Ergonomics, 2005, 48, 1097-1113.	2.1	41

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109	Evaluation in human'Ã,,ìcomputer interaction. , 2005, , 357-387.		8
110	A Novel Integration of Human Factors Methods to Analyse C4i Activity; A Chemical Incident Case Study Carried Out with the UK Fire Service. Proceedings of the Human Factors and Ergonomics Society, 2004, 48, 518-522.	0.3	0
111	Defining and evaluating context for wearable computing. International Journal of Human Computer Studies, 2004, 60, 798-819.	5.6	19
112	Integrated digital communities: combining web-based interaction with text messaging to develop a system for encouraging group communication and competition. Interacting With Computers, 2004, 16, 93-113.	1.5	25
113	Social Networks and Mobile Games: The Use of Bluetooth for a Multiplayer Card Game. Lecture Notes in Computer Science, 2004, , 98-107.	1.3	10
114	Neck muscle activity and perceived pain and discomfort due to variations of head load and posture. Aviation, Space, and Environmental Medicine, 2004, 75, 123-31.	0.5	16
115	On the cost-effectiveness of ergonomics. Applied Ergonomics, 2003, 34, 407-411.	3.1	14
116	Objective Metrics for the Evaluation of Simple Surgical Skills in Real and Virtual Domains. Presence: Teleoperators and Virtual Environments, 2003, 12, 207-221.	0.6	16
117	Subjective evaluation of usability. Ergonomics, 2002, 45, 1021-1025.	2.1	15
118	Task analysis for error identification: Theory, method and validation. Theoretical Issues in Ergonomics Science, 2002, 3, 212-227.	1.8	29
119	Error by design: methods for predicting device usability. Design Studies, 2002, 23, 363-384.	3.1	60
120	Embedded human computer interaction. Applied Ergonomics, 2002, 33, 273-287.	3.1	12
121	Wearable Computers: A Human Factors Review. International Journal of Human-Computer Interaction, 2001, 13, 123-145.	4.8	35
122	Ubiquitous digital imaging systems. , 2001, 4306, 425.		1
123	Using critical path analysis to model multimodal human–computer interaction. International Journal of Human Computer Studies, 2001, 54, 613-636.	5.6	39
124	Designing habitable dialogues for speech-based interaction with computers. International Journal of Human Computer Studies, 2001, 54, 637-662.	5.6	25
125	Can support systems adversely affect cell performance?. International Journal of Production Economics, 2000, 65, 43-54.	8.9	1
126	Virtual Reality: A Tool for Assembly?. Presence: Teleoperators and Virtual Environments, 2000, 9, 486-496.	0.6	35

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127	Automatic Speech Recognition, Noise and Workload. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 762-765.	0.3	6
128	Ergonomics of wearable computers. Mobile Networks and Applications, 1999, 4, 15-21.	3.3	52
129	Virtual risks: Rich domain risk and technology transfer failure as design criteria in the Sheffield Knee Arthroscopy Trainer (SKATS). Virtual Reality, 1999, 4, 192-202.	6.1	1
130	Modelling the effects of constraint upon speech-based human–computer interaction. International Journal of Human Computer Studies, 1999, 50, 85-107.	5.6	11
131	Contrasting paradigms for the development of wearable computers. IBM Systems Journal, 1999, 38, 551-565.	3.0	38
132	Wearable Information Appliances for the Emergency Services: HotHelmet. Lecture Notes in Computer Science, 1999, , 314-316.	1.3	1
133	Human Factors of Multi-modal Ubiquitous Computing. Lecture Notes in Computer Science, 1999, , 346-348.	1.3	1
134	Designing for consumers: editorial. Applied Ergonomics, 1998, 29, 1-3.	3.1	9
135	From public technology to ubiquitous computing: implications for ergonomics Editorial. Ergonomics, 1998, 41, 921-926.	2.1	9
136	Speech technology for automatic teller machines: an investigation of user attitude and performance. Ergonomics, 1998, 41, 962-981.	2.1	34
137	Preliminary Investigations into the Use of Wearable Computers. , 1998, , 313-325.		8
138	Comparing speech versus text displays for alarm handling. Ergonomics, 1997, 40, 1240-1254.	2.1	10
139	Factors affecting users' choice of words in speech-based interaction with public technology. International Journal of Speech Technology, 1997, 2, 45-59.	2.2	14
140	Human Error, Engineering Psychology and System Safety. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 1255-1260.	0.4	0
141	Automatic Speech Recognition in Adverse Environments. Human Factors, 1996, 38, 142-155.	3.5	33
142	Human error identification techniques applied to public technology: predictions compared with observed use. Applied Ergonomics, 1996, 27, 119-131.	3.1	98
143	A systems approach to human error identification. Safety Science, 1996, 22, 215-228.	4.9	37
144	Towards a definition and working model of stress and its effects on speech. Speech Communication, 1996, 20, 3-12.	2.8	54

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145	Workload and the use of automatic speech recognition: The effects of time and resource demands. Speech Communication, 1996, 20, 37-53.	2.8	43
146	Alarm-initiated activities: an analysis of alarm handlingby operators using text-based alarm systems in supervisory control systems. Ergonomics, 1995, 38, 2414-2431.	2.1	22
147	Task analysis for error identification: a methodology for designing error-tolerant consumer products. Ergonomics, 1994, 37, 1923-1941.	2.1	72
148	Modelling error recovery and repair in automatic speech recognition. International Journal of Man-Machine Studies, 1993, 39, 495-515.	0.7	34
149	Comparison of GUIs and CUIs: appropriate ranges of actions and ease of use. Displays, 1993, 14, 207-215.	3.7	2
150	Identification, classification and management of errors in automated component assembly tasks. International Journal of Production Research, 1993, 31, 1853-1863.	7.5	10
151	Can speech be used for alarm displays in †process control' type tasks?. Behaviour and Information Technology, 1992, 11, 216-226.	4.0	9
152	Usability and EC Directive. Displays, 1992, 13, 151-160.	3.7	9
153	Feedback requirements for automatic speech recognition in the process control room. International Journal of Man-Machine Studies, 1992, 37, 703-719.	0.7	11
154	An experimental comparison of test and symbols for in-car reconfigurable displays. Applied Ergonomics, 1992, 23, 255-262.	3.1	23
155	Methods and tools in user centred design for information technology. Applied Ergonomics, 1992, 23, 359-360.	3.1	0
156	Instructions and demonstration as media for training new users of Automatic Speech Recognition Devices. Behaviour and Information Technology, 1990, 9, 371-379.	4.0	6
157	The comfort assessment of wearable computers. , 0, , .		54
158	Evaluating contextual information for wearable computing., 0,,.		13
159	Using gestures to learn about graphs: the contribution of multimodal technology. , 0, , .		1
160	User evaluation of augmented reality systems. , 0, , .		23
161	Design of a Minimal Interface for two-way strategic information flow for urban operations. , 0, , .		3
162	Wearable Technology for Crime Scene Investigation. , 0, , .		6

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163	Tool Use as Gesture: new challenges for maintenanceand rehabilitation. , 0, , .		3
164	Towards the definition of a modelling framework for meaningful Human-IoT Interactions. , 0, , .		3
165	Tackling the Zombie Apocalypse: sensemaking in simulated disaster management. , 0, , .		0