

# Andrew Howes

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73  
papers

1,209  
citations

20  
h-index

32  
g-index

80  
ext. papers

1,413  
ext. citations

2.4  
avg, IF

4.49  
L-index

#	Paper	IF	Citations
73	Rational adaptation under task and processing constraints: implications for testing theories of cognition and action. <i>Psychological Review</i> , <b>2009</b> , 116, 717-51	6.3	158
72	The problem of conflicting social spheres <b>2009</b> ,		75
71	A framework for understanding human factors in web-based electronic commerce. <i>International Journal of Human Computer Studies</i> , <b>2000</b> , 52, 131-163	4.6	69
70	Computational rationality: linking mechanism and behavior through bounded utility maximization. <i>Topics in Cognitive Science</i> , <b>2014</b> , 6, 279-311	2.5	66
69	The Role of Cognitive Architecture in Modeling the User: Soar's Learning Mechanism. <i>Human-Computer Interaction</i> , <b>1997</b> , 12, 311-343	2.9	58
68	A dual-space model of iteratively deepening exploratory learning. <i>International Journal of Human Computer Studies</i> , <b>1996</b> , 44, 743-775	4.6	42
67	Focus on driving <b>2009</b> ,		41
66	Strategies for Guiding Interactive Search: An Empirical Investigation Into the Consequences of Label Relevance for Assessment and Selection. <i>Human-Computer Interaction</i> , <b>2008</b> , 23, 1-46	2.9	41
65	Teaching reforms and the impact of paid adult support on participation and learning in mainstream schools. <i>Support for Learning</i> , <b>2003</b> , 18, 147-153	0.7	36
64	Why contextual preference reversals maximize expected value. <i>Psychological Review</i> , <b>2016</b> , 123, 368-91	6.3	30
63	Display-based competence: towards user models for menu-driven interfaces. <i>International Journal of Man-Machine Studies</i> , <b>1990</b> , 33, 637-655		30
62	Model of visual search and selection time in linear menus <b>2014</b> ,		29
61	The Nature of Device Models: The Yoked State Space Hypothesis and Some Experiments With Text Editors. <i>Human-Computer Interaction</i> , <b>1990</b> , 5, 415-444	2.9	29
60	Adaptively distributing cognition: A decision-making perspective on human - computer interaction. <i>Behaviour and Information Technology</i> , <b>2001</b> , 20, 339-346	2.4	24
59	Identifying optimum performance trade-offs using a cognitively bounded rational analysis model of discretionary task interleaving. <i>Topics in Cognitive Science</i> , <b>2011</b> , 3, 123-39	2.5	22
58	Teacher learning and the development of inclusive practices and policies: framing and context. <i>Research Papers in Education</i> , <b>2005</b> , 20, 133-148	1.6	22
57	The Emergence of Interactive Behavior <b>2015</b> ,		21

56	Scalable Proactive Event-Driven Decision Making. <i>IEEE Technology and Society Magazine</i> , <b>2014</b> , 33, 35-41	0.8	20
55	The role of attack and defense semantics in skilled players' memory for chess positions. <i>Memory and Cognition</i> , <b>2002</b> , 30, 707-17	2.2	20
54	The effects of hyperlinks on navigation in virtual environments. <i>International Journal of Human Computer Studies</i> , <b>2000</b> , 53, 551-581	4.6	20
53	HARMONY AND TENSION ON SOCIAL NETWORK SITES. <i>Information, Communication and Society</i> , <b>2012</b> , 15, 1279-1297	3.4	19
52	Adaptive Interaction: A Utility Maximization Approach to Understanding Human Interaction with Technology. <i>Synthesis Lectures on Human-Centered Informatics</i> , <b>2013</b> , 6, 1-111	2.5	19
51	A cognitive constraint model of dual-task trade-offs in a highly dynamic driving task <b>2007</b> ,		17
50	Inferring Cognitive Models from Data using Approximate Bayesian Computation <b>2017</b> ,		16
49	The adaptation of visual search strategy to expected information gain <b>2008</b> ,		16
48	A constraint satisfaction approach to predicting skilled interactive cognition <b>2004</b> ,		16
47	Generating automated predictions of behavior strategically adapted to specific performance objectives <b>2006</b> ,		15
46	Parameter Inference for Computational Cognitive Models with Approximate Bayesian Computation. <i>Cognitive Science</i> , <b>2019</b> , 43, e12738	2.2	14
45	Informing decisions <b>2011</b> ,		14
44	The adaptive user: an investigation into the cognitive and task constraints on the generation of new methods. <i>Journal of Experimental Psychology: Applied</i> , <b>2003</b> , 9, 236-48	1.8	13
43	Incidental memory and navigation in panoramic virtual reality for electronic commerce. <i>Human Factors</i> , <b>2001</b> , 43, 239-54	3.8	13
42	The Effect of Expected Value on Attraction Effect Preference Reversals. <i>Journal of Behavioral Decision Making</i> , <b>2017</b> , 30, 785-793	2.4	12
41	A Cognitive Model of How People Make Decisions Through Interaction with Visual Displays <b>2017</b> ,		11
40	Strategic use of familiarity in display-based problem solving.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , <b>2000</b> , 26, 1685-1701	2.2	11
39	The adaptation of visual search to utility, ecology and design. <i>International Journal of Human Computer Studies</i> , <b>2015</b> , 80, 45-55	4.6	10

38	Partnerships in pedagogy: refocusing of classroom lenses. <i>European Journal of Teacher Education</i> , <b>2010</b> , 33, 65-77	4.2	10
37	Predicting the learnability of task-action mappings <b>1991</b> ,		9
36	Learning in the contact zone: revisiting neglected aspects of development through an analysis of volunteer placements in Indonesia. <i>Compare</i> , <b>2008</b> , 38, 23-38	1.1	8
35	Learning Consistent, Interactive, and Meaningful Task-Action Mappings: A Computational Model. <i>Cognitive Science</i> , <b>1996</b> , 20, 301-356	2.2	8
34	A model of the acquisition of menu knowledge by exploration <b>1994</b> ,		8
33	Workflows and individual differences during visually guided routine tasks in a road traffic management control room. <i>Applied Ergonomics</i> , <b>2017</b> , 61, 79-89	4.2	7
32	Designing information fusion for the encoding of visual-spatial information. <i>Ergonomics</i> , <b>2008</b> , 51, 775-979	1.9	7
31	A task-action trace for exploratory learners. <i>Behaviour and Information Technology</i> , <b>1992</b> , 11, 63-70	2.4	7
30	Interaction science SIG <b>2014</b> ,		6
29	Too Much, Too Little or Just Right: Designing Data Fusion for Situation Awareness. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2004</b> , 48, 528-532	0.4	6
28	Predicting Short-Term Remembering as Boundedly Optimal Strategy Choice. <i>Cognitive Science</i> , <b>2016</b> , 40, 1192-223	2.2	6
27	Effects of Frequency Distribution on Linear Menu Performance <b>2017</b> ,		5
26	Utility maximization and bounds on human information processing. <i>Topics in Cognitive Science</i> , <b>2014</b> , 6, 198-203	2.5	5
25	A Cognitive Constraint Model of the Effects of Portable Music-Player Use on Driver Performance. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2007</b> , 51, 1531-1535	0.4	5
24	Post-web cognition: evolving knowledge strategies for global information environments. <i>International Journal of Web Engineering and Technology</i> , <b>2003</b> , 1, 112	0.3	5
23	The trouble with shortcuts <b>2000</b> ,		5
22	How do children adapt strategies when drawing on a tablet? <b>2014</b> ,		4
21	Automation Reliability and Decision Strategy: A Sequential Decision Making Model for Automation Interaction. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2018</b> , 62, 144-148	0.4	4

20	An Empirical Investigation into Dual-Task Trade-offs while Driving and Dialing		3
19	Bounding Rational Analysis <b>2007</b> , 403-413		3
18	Ageing, frailty and resilience in Botswana: rapid ageing, rapid change. Findings from a national working group meeting and literature review. <i>BMC Proceedings</i> , <b>2019</b> , 13, 8	2.3	3
17	Useful theories make predictions. <i>Topics in Cognitive Science</i> , <b>2012</b> , 4, 84-6; discussion 94-102	2.5	2
16	Semantic analysis during exploratory learning <b>1990</b> ,		2
15	Learning Consistent, Interactive, and Meaningful Task-Action Mappings: A Computational Model <b>1996</b> , 20, 301		2
14	Interaction as an Emergent Property of a Partially Observable Markov Decision Process <b>2018</b> ,		2
13	Reward Conditions Modify Children's Drawing Behaviour. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 455-465		2
12	Principles, Techniques and Perspectives on Optimization and HCI <b>2015</b> ,		1
11	Conceptual instructions derived from an analysis of device models. <i>International Journal of Human-Computer Interaction</i> , <b>1992</b> , 4, 35-57	3.6	1
10	The Effect of Group Size and Frequency-of-Encounter on the Evolution of Cooperation. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 37-44	0.9	1
9	An empirical investigation of memory for routes through menu structures <b>1997</b> , 347-354		1
8	Games for Psychological Science. <i>Topics in Cognitive Science</i> , <b>2017</b> , 9, 533-536	2.5	
7	The consequences of virtual embodiment for the mental representation of proximity. <i>Quarterly Journal of Experimental Psychology</i> , <b>2013</b> , 66, 1035-50	1.8	
6	Adaptive Information Fusion for Situation Awareness in the Cockpit. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2005</b> , 49, 49-53	0.4	
5	The role of (bounded) optimization in theory testing and prediction. <i>Behavioral and Brain Sciences</i> , <b>2018</b> , 41, e232	0.9	
4	Cognitively bounded rational analyses and the crucial role of theories of subjective utility. <i>Behavioral and Brain Sciences</i> , <b>2020</b> , 43, e14	0.9	
3	Cognitive Modelling: Experiences in Human-Computer Interaction <b>1995</b> , 97-112		

2 Automated Theory-based Procurement Evaluation **1997**, 270-277

1 Linking Context to Evaluation in the Design of Safety Critical Interfaces. *Lecture Notes in Computer Science*, **2013**, 193-202 0.9