J Gregory Trafton, Greg Trafton

List of Publications by Year
in descending order

74	2,598	304743 22	206112 48
papers	citations	h-index	g-index

76	76	76	1504
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Memory for goals: an activation-based model. Cognitive Science, 2002, 26, 39-83.	1.7	434
2	The effect of interruption duration and demand on resuming suspended goals.. Journal of Experimental Psychology: Applied, 2008, 14, 299-313.	1.2	196
3	Recovering From Interruptions: Implications for Driver Distraction Research. Human Factors, 2004, 46, 650-663.	3.5	165
4	Momentary interruptions can derail the train of thought.. Journal of Experimental Psychology: General, 2014, 143, 215-226.	2.1	145
5	Timecourse of recovery from task interruption: Data and a model. Psychonomic Bulletin and Review, 2007, 14, 1079-1084.	2.8	138
6	Task Interruptions. Reviews of Human Factors and Ergonomics, 2007, 3, 111-126.	0.5	96
7	Turning pictures into numbers: extracting and generating information from complex visualizations. International Journal of Human Computer Studies, 2000, 53, 827-850.	5.6	91
8	â€œWhat ifâ€¦â€• The Use of Conceptual Simulations in Scientific Reasoning. Cognitive Science, 2007, 31, 843-875.	1.7	73
9	The Attentional Costs of Interrupting Task Performance at Various Stages. Proceedings of the Human Factors and Ergonomics Society, 2002, 46, 1824-1828.	0.3	69
10	A memory for goals model of sequence errors. Cognitive Systems Research, 2011, 12, 134-143.	2.7	65
11	Measuring search efficiency in complex visual search tasks: Global and local clutter.. Journal of Experimental Psychology: Applied, 2010, 16, 238-250.	1.2	61
12	Integrating cognition, perception and action through mental simulation in robots. Robotics and Autonomous Systems, 2004, 49, 13-23.	5.1	59
13	Connecting Internal and External Representations: Spatial Transformations of Scientific Visualizations. Foundations of Science, 2005, 10, 89-106.	0.7	58
14	Note-Taking for Self-Explanation and Problem Solving. Human-Computer Interaction, 2001, 16, 1-38.	4.4	54
15	Spatial memory guides task resumption. Visual Cognition, 2008, 16, 1001-1010.	1.6	45
16	The Peer-to-Peer Human-Robot Interaction Project. , 2005, , .		40
17	The Relationship Between Spatial Transformations and Iconic Gestures. Spatial Cognition and Computation, 2006, 6, 1-29.	1.2	40
18	Huh, what was I Doing? How People Use Environmental Cues after an Interruption. Proceedings of the Human Factors and Ergonomics Society, 2005, 49, 468-472.	0.3	37

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19	Human modeling for humanâ€“robot collaboration. International Journal of Robotics Research, 2017, 36, 580-596.	8.5	36
20	The Red-Line of Workload: Theory, Research, and Design. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 1204-1208.	0.3	35
21	Integrating vision and audition within a cognitive architecture to track conversations. , 2008, , .		34
22	A Model of Clutter for Complex, Multivariate Geospatial Displays. Human Factors, 2009, 51, 90-101.	3.5	34
23	Mitigating disruptive effects of interruptions through training: What needs to be practiced?. Journal of Experimental Psychology: Applied, 2011, 17, 97-109.	1.2	31
24	â€œLike-Meâ€•Simulation as an Effective and Cognitively Plausible Basis for Social Robotics. International Journal of Social Robotics, 2009, 1, 181-194.	4.6	29
25	Predicting postcompletion errors using eye movements. , 2008, , .		24
26	Dynamic Operator Overload: A Model for Predicting Workload During Supervisory Control. IEEE Transactions on Human-Machine Systems, 2014, 44, 30-40.	3.5	22
27	Single operator, multiple robots. , 2010, , .		22
28	Extracting Explicit and Implict Information from Complex Visualizations. Lecture Notes in Computer Science, 2002, , 206-220.	1.3	21
29	A Preliminary Study of Peer-to-Peer Human-Robot Interaction. , 2006, , .		21
30	How Do Scientists Respond to Anomalies? Different Strategies Used in Basic and Applied Science. Topics in Cognitive Science, 2009, 1, 711-729.	1.9	21
31	Understanding dynamic and static displays: using images to reason dynamically. Cognitive Systems Research, 2005, 6, 312-319.	2.7	20
32	An Eye Movement Analysis of the Effect of Interruption Modality on Primary Task Resumption. Human Factors, 2010, 52, 370-380.	3.5	20
33	Cognitive Models of the Influence of Color Scale on Data Visualization Tasks. Human Factors, 2009, 51, 321-338.	3.5	19
34	Brief Lags in Interrupted Sequential Performance: Evaluating a Model and Model Evaluation Method. International Journal of Human Computer Studies, 2015, 79, 51-65.	5.6	19
35	Dealing with Interruptions can be Complex, but does Interruption Complexity Matter: A Mental Resources Approach to Quantifying Disruptions. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 398-402.	0.3	18
36	A perceptual process approach to selecting color scales for complex visualizations.. Journal of Experimental Psychology: Applied, 2009, 15, 25-34.	1.2	18

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37	A Generalized Model for Predicting Postcompletion Errors. Topics in Cognitive Science, 2010, 2, 154-167.	1.9	17
38	Immediate inferences from quantified assertions. Quarterly Journal of Experimental Psychology, 2015, 68, 2073-2096.	1.1	17
39	Examining the Role of Task Requirements in the Magnitude of the Vigilance Decrement. Frontiers in Psychology, 2018, 9, 1504.	2.1	17
40	The Effect of Interruption Modality on Primary Task Resumption. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 393-397.	0.3	16
41	Embodied Spatial Cognition. Topics in Cognitive Science, 2011, 3, 686-706.	1.9	15
42	Long-term symbolic learning. Cognitive Systems Research, 2007, 8, 237-247.	2.7	14
43	Helpful or Harmful? Examining the Effects of Interruptions on Task Performance. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 372-375.	0.3	13
44	Using Peripheral Processing and Spatial Memory to Facilitate Task Resumption. Proceedings of the Human Factors and Ergonomics Society, 2007, 51, 244-248.	0.3	12
45	Building and Verifying a Predictive Model of Interruption Resumption. Proceedings of the IEEE, 2012, 100, 648-659.	21.3	12
46	Building high assurance human-centric decision systems. Automated Software Engineering, 2015, 22, 159-197.	2.9	12
47	Mitigating Disruptions: Can Resuming an Interrupted Task Be Trained?. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 368-371.	0.3	11
48	COLLABORATING WITH HUMANOID ROBOTS IN SPACE. International Journal of Humanoid Robotics, 2005, 02, 181-201.	1.1	9
49	Episodes, events, and models. Frontiers in Human Neuroscience, 2015, 9, 590.	2.0	9
50	A Process-Model Account of Task Interruption and Resumption: When Does Encoding of the Problem State Occur?. Proceedings of the Human Factors and Ergonomics Society, 2009, 53, 799-803.	0.3	8
51	Unpacking the temporal advantage of distributing complex visual displays. International Journal of Human Computer Studies, 2012, 70, 812-827.	5.6	8
52	Adaptive automation and cue invocation. , 2013, , .		8
53	An algorithm for generating color scales for both categorical and ordinal coding. Color Research and Application, 2010, 35, 18-28.	1.6	7
54	An ACT-R Process Model of the Signal Duration Phenomenon of Vigilance. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 909-913.	0.3	7

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55	Robot-directed speech: Using language to assess first-time users' conceptualizations of a robot. , 2010, , .		6
56	Towards collaboration with robots in shared space. Interactions, 2005, 12, 22-24.	1.0	5
57	An explanatory reasoning framework for embodied agents. Biologically Inspired Cognitive Architectures, 2012, 1, 23-31.	0.9	5
58	Human Error as an Emergent Property of Action Selection and Task Place-Holding. Human Factors, 2017, 59, 377-392.	3.5	5
59	Leveraging Cognitive Context for Object Recognition. , 2014, , .		4
60	Interruption Practice Reduces Procedural Errors at the Post-Completion Step. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 265-269.	0.3	4
61	Dynamic Mental Models in Weather Forecasting. Proceedings of the Human Factors and Ergonomics Society, 2004, 48, 311-314.	0.3	3
62	The law of unintended consequences. , 2014, , .		3
63	Improving Vigilance Analysis Methodology. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 289-293.	0.3	3
64	Interruptions can Change the Perceived Relationship between Accuracy and Confidence. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 230-234.	0.3	3
65	The Effect of Interruptions and Global Placekeeping on Postcompletion Error Rates. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 463-467.	0.3	2
66	How Long Is a Moment: The Perception and Reality of Task-Related Absences. International Journal of Social Robotics, 2011, 3, 243-252.	4.6	2
67	Time Pressure, Memory, and Task Knowledge Facilitate the Opportunism Heuristic in Dynamic Tasks. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 1025-1029.	0.3	2
68	Familiarity, Priming, and Perception in Similarity Judgments. Cognitive Science, 2017, 41, 1450-1484.	1.7	2
69	Interruptions Reduce Performance across All Levels of Signal Detection When Estimations of Confidence are Highest. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 254-258.	0.3	1
70	Cognitive Tools for Humanoid Robots in Space. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 351-356.	0.4	0
71	Collaborating with a Dynamically Autonomous Cognitive Robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 147-152.	0.4	0
72	A Process Model of Trust in Automation. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 827-831.	0.3	0

#	Article	IF	Citations
73	Using spatial representations in gesture to facilitate early word learning: A priming process model. , 2015, , .		0
74	Validating and Refining Cognitive Process Models Using Probabilistic Graphical Models. Topics in Cognitive Science, 0, , .	1.9	0