Ling Rothrock

List of Publications by Year
in descending order

54	682	687363	610901
papers	citations	13 h-index	24 g-index

56	56	56	493
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Validating an abnormal situation prediction model for smart manufacturing in the oil refining industry. Applied Ergonomics, 2022, 101, 103697.	3.1	3
2	Aiding decision makers to reopening of places of worship. Human Factors and Ergonomics in Manufacturing, 2021, 31, 349-359.	2.7	3
3	Potential benefits of eye tracking within process control monitoring tasks. Human Factors and Ergonomics in Manufacturing, 2021, 31, 316-326.	2.7	7
4	Editorial Special Issue on Computational Human Performance Modeling. IEEE Transactions on Human-Machine Systems, 2019, 49, 470-473.	3.5	2
5	An Eye-Tracking Evaluation of Gauge Shapes in Process Control. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 2201-2205.	0.3	0
6	An Investigation of Placement of Textual and Graphical Information Using Human Performance and Eye Tracking Data. Lecture Notes in Computer Science, 2019, , 122-136.	1.3	0
7	A Highway-Driving System Design Viewpoint Using an Agent-Based Modeling of an Affordance-Based Finite State Automata. IEEE Access, 2018, 6, 2193-2205.	4.2	18
8	An evaluation of touchscreen versus keyboard/mouse interaction for large screen process control displays. Applied Ergonomics, 2017, 64, 1-13.	3.1	9
9	The effects of Gamification on engineering lab activities. , 2016, , .		8
10	Applying Fuzzy Linear Regression to Understand Metacognitive Judgments in a Human-in-the-Loop Simulation Environment. IEEE Transactions on Human-Machine Systems, 2016, 46, 360-369.	3.5	6
11	Investigating Performance of Command Team Structures in the NATO Problem-Approach Space. IEEE Transactions on Human-Machine Systems, 2015, 45, 702-713.	3.5	13
12	Investigating information-processing performance of different command team structures in the NATO Problem Space. Ergonomics, 2015, 58, 2078-2100.	2.1	9
13	Structural models of extraversion, communication, and team performance. International Journal of Industrial Ergonomics, 2014, 44, 82-91.	2.6	22
14	Using Signal Detection Theory and Time Window-based Human-In-The-Loop simulation as a tool for assessing the effectiveness of different qualitative shapes in continuous monitoring tasks. Applied Ergonomics, 2014, 45, 693-705.	3.1	15
15	Human Factors in Advanced Applications for Process Control. IIE Transactions on Occupational Ergonomics and Human Factors, 2014, 2, 119-120.	0.4	1
16	Evaluating Alternate Visualization Techniques for Overview Displays in Process Control. IIE Transactions on Occupational Ergonomics and Human Factors, 2014, 2, 152-168.	0.4	12
17	Agent-based simulation of affordance-based human behaviors in emergency evacuation. Simulation Modelling Practice and Theory, 2013, 32, 99-115.	3.8	111
18	Developing Metacognitive Models for Team-Based Dynamic Environment Using Fuzzy Cognitive Mapping. Lecture Notes in Computer Science, 2013, , 325-334.	1.3	1

#	Article	IF	Citations
19	Investigating the Effects of Metacognition in Dynamic Control Tasks. Lecture Notes in Computer Science, 2011, , 378-387.	1.3	6
20	Performance assessment in an interactive call center workforce simulation. Simulation Modelling Practice and Theory, 2011, 19, 227-238.	3.8	11
21	A modelling formalism for human-machine cooperative systems. International Journal of Production Research, 2011, 49, 4263-4273.	7.5	9
22	Framing, Loss Aversion, and Visualization of Risk for a Dynamic Simulation Environment. Journal of Cognitive Engineering and Decision Making, 2011, 5, 294-308.	2.3	3
23	Performance Measurement and Evaluation in Human-in-the-Loop Simulations. , 2011, , 15-53.		2
24	Human Behavioral Simulation Using Affordance-Based Agent Model. Lecture Notes in Computer Science, 2011, , 368-377.	1.3	9
25	An Inductive Inference Model to Elicit Noncompensatory Judgment Strategies. Lecture Notes in Computer Science, 2011, , 414-422.	1.3	0
26	Towards an interdisciplinary perspective of training intervention for negotiations: Developing strategic negotiation support contents. Decision Support Systems, 2010, 49, 213-221.	5.9	5
27	Statistical evaluation and analysis of safety intervention in the determination of an effective resource allocation strategy. Journal of Loss Prevention in the Process Industries, 2010, 23, 585-593.	3.3	10
28	Using finite state automata (FSA) for formal modelling of affordances in human-machine cooperative manufacturing systems. International Journal of Production Research, 2010, 48, 1303-1320.	7.5	28
29	Using the Analytic Hierarchy Process to Examine Judgment Consistency in a Complex Multiattribute Task. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 1105-1115.	2.9	36
30	An affordance-based formalism for modeling human-involvement in complex systems for prospective control. , 2010, , .		7
31	Analyses of team performance in a dynamic task environment. Applied Ergonomics, 2009, 40, 699-706.	3.1	11
32	Inferring Fast and Frugal Heuristics from Human Judgment Data. , 2009, , 131-148.		0
33	Integrating Compensatory and Noncompensatory Decision-Making Strategies in Dynamic Task Environments. Springer Optimization and Its Applications, 2008, , 125-141.	0.9	45
34	Affordance-based computational model of driver behavior on highway systems: A Colored Petri Net approach. , 2007, , .		5
35	Systematic analysis of framing bias in missile defense: Implications toward visualization design. European Journal of Operational Research, 2007, 182, 1383-1398.	5.7	14
36	Impact of response delay and training on user performance with text-based and graphical user interfaces for engineering design. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2007, 18, 49-65.	2.1	19

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37	Graphical and text-based design interfaces for parameter design of an I-beam, desk lamp, aircraft wing, and job shop manufacturing system. Engineering With Computers, 2007, 23, 93-107.	6.1	6
38	Time windows-based team performance measures: a framework to measure team performance in dynamic environments. Cognition, Technology and Work, 2007, 9, 99-108.	3.0	7
39	Time Windows-based Team Performance Measures: Design and Implementation. , 2006, , .		1
40	A rule-based lens model. International Journal of Industrial Ergonomics, 2006, 36, 499-509.	2.6	10
41	Applying the proximity compatibility and the control-display compatibility principles to engineering design interfaces. Human Factors and Ergonomics in Manufacturing, 2006, 16, 61-81.	2.7	13
42	Experimentation Framework for Investigating Compensatory and Noncompensatory Decision-Making. , 2006, , .		0
43	A formal control-theoretic model of a humanâ€“automation interactive manufacturing system control. International Journal of Production Research, 2006, 44, 4273-4295.	7.5	21
44	Team-in-the-Loop Simulations. , 2006, , .		0
45	A theoretical framework and quantitative architecture to assess team task complexity in dynamic environments. Theoretical Issues in Ergonomics Science, 2005, 6, 157-171.	1.8	27
46	A Visualization Framework for Bounding Physical Activities â€” Towards a Quantification of Gibsonian-Based Fields. Proceedings of the Human Factors and Ergonomics Society, 2005, 49, 397-401.	0.3	3
47	Using Ga-Based Intelligent Control Means to Enhance Human-Machine Interfaces. Intelligent Automation and Soft Computing, 2005, 11, 123-140.	2.1	1
48	Metamodel-Driven Interfaces for Engineering Design: Impact of Delay and Problem Size on User Performance. , 2005, , .		5
49	Graphical User Interfaces for Engineering Design: Impact of Response Delay and Training on User Performance. , 2004, , .		9
50	Modeling and Analysis of Human Task-Performing Process in Manufacturing Systems With Human Task and Error Classifications. , 2004, , .		0
51	The Presentation of Risk and Uncertainty in the Context of National Missile Defense Simulations. Proceedings of the Human Factors and Ergonomics Society, 2003, 47, 562-566.	0.3	5
52	Review and reappraisal of adaptive interfaces: Toward biologically inspired paradigms. Theoretical Issues in Ergonomics Science, 2002, 3, 47-84.	1.8	70
53	Using Time Windows to Evaluate Operator Performance. International Journal of Cognitive Ergonomics, 2001, 5, 1-21.	0.2	23
54	Feedback augmentation and part-task practice in training dynamic decision-making skills.. , 1998, , 91-113.		21