

# Ronald Boring

## List of Publications by Year in descending order

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Version: 2024-02-01

111  
papers

886  
citations

840776

11  
h-index

677142

22  
g-index

150  
all docs

150  
docs citations

150  
times ranked

516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shared Understanding for Collaborative Control. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2005, 35, 494-504.	2.9	120
2	Issues in benchmarking human reliability analysis methods: A literature review. Reliability Engineering and System Safety, 2010, 95, 591-605.	8.9	53
3	The Distribution of Attention Across a Talker's Face. Discourse Processes, 2004, 38, 145-168.	1.8	46
4	The origins of the SPAR-H method&#x2019;s performance shaping factor multipliers. , 2007, , .		46
5	The Measure of human error: Direct and indirect performance shaping factors. , 2007, , .		29
6	Guideline for Operational Nuclear Usability and Knowledge Elicitation (GONUKE). Procedia Manufacturing, 2015, 3, 1327-1334.	1.9	29
7	Computerized Operator Support Systems to Aid Decision Making in Nuclear Power Plants. Procedia Manufacturing, 2015, 3, 5261-5268.	1.9	29
8	Human-centered automation for resilient nuclear power plant outage control. Automation in Construction, 2017, 82, 179-192.	9.8	28
9	Human reliability analysis: Exploring the intellectual structure of a research field. Reliability Engineering and System Safety, 2020, 203, 107102.	8.9	21
10	Advantages and disadvantages of physiological assessment for next generation control room design. , 2007, , .		18
11	"I call shotgun!": an evaluation of mixed-initiative control for novice users of a search and rescue robot. , 0, , .		17
12	A prototyping environment for research on human-machine interfaces in process control use of Microsoft WPF for microworld and distributed control system development. , 2014, , .		16
13	Human-Computer Interaction as Cognitive Science. Proceedings of the Human Factors and Ergonomics Society, 2002, 46, 1767-1771.	0.3	15
14	Rancor: A Gamified Microworld Nuclear Power Plant Simulation for Engineering Psychology Research and Process Control Applications. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 398-402.	0.3	15
15	Early-Stage Design and Evaluation for Nuclear Power Plant Control Room Upgrades. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1909-1913.	0.3	12
16	A Comparison Study of Operator Preference and Performance for Analog Versus Digital Turbine Control Systems in Control Room Modernization. Nuclear Technology, 2019, 205, 507-523.	1.2	11
17	Advanced Nuclear Interface Modeling Environment (ANIME): A Tool for Developing Human-Computer Interfaces for Experimental Process Control Systems. Lecture Notes in Computer Science, 2017, , 3-15.	1.3	11
18	Bridging Human Factors and Human Reliability Analysis. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 733-737.	0.3	10

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19	The Development of Dynamic Human Reliability Analysis Simulations for Inclusion in Risk Informed Safety Margin Characterization Frameworks. <i>Procedia Manufacturing</i> , 2015, 3, 1305-1311.	1.9	10
20	Top-Down and Bottom-Up Definitions of Human Failure Events in Human Reliability Analysis. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2014, 58, 563-567.	0.3	9
21	Reconciling Resilience with Reliability: The Complementary Nature of Resilience Engineering and Human Reliability Analysis. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2009, 53, 1589-1593.	0.3	8
22	Fault Diagnosis with Multi-State Alarms in a Nuclear Power Control Simulator. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2012, 56, 2167-2171.	0.3	8
23	A Microworld Simulator for Process Control Research and Training. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2013, 57, 1367-1371.	0.3	8
24	Human Factors Design, Verification, and Validation for Two Types of Control Room Upgrades at a Nuclear Power Plant. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2014, 58, 2295-2299.	0.3	8
25	Studying Situation Awareness on a Shoestring Budget. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2015, 59, 1520-1524.	0.3	8
26	Nuclear Reactor Crew Evaluation of a Computerized Operator Support System HMI for Chemical and Volume Control System. <i>Lecture Notes in Computer Science</i> , 2017, , 501-513.	1.3	8
27	Beyond usability for safety critical systems. , 2007, , .		7
28	Example User Centered Design Process for a Digital Control System in a Nuclear Power Plant. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2013, 57, 1727-1731.	0.3	7
29	Envy In V&V. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2015, 59, 1746-1750.	0.3	7
30	Defining Human Failure Events for Petroleum Applications of Human Reliability Analysis. <i>Procedia Manufacturing</i> , 2015, 3, 1335-1342.	1.9	7
31	Human reliability for safe and efficient civil infrastructure operation and maintenance – A review. <i>Developments in the Built Environment</i> , 2020, 4, 100028.	4.0	7
32	SIG. , 2005, , .		6
33	Capturing control room simulator data with the HERA System. , 2007, , .		6
34	Control board digital interface input devices - touchscreen, trackpad, or mouse?. , 2015, , .		6
35	Epistemiation. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016, 60, 1701-1705.	0.3	6
36	Application of Artificial Intelligence in Detection and Mitigation of Human Factor Errors in Nuclear Power Plants: A Review. <i>Nuclear Technology</i> , 2023, 209, 276-294.	1.2	6

#	ARTICLE	IF	CITATIONS
37	Atomistic and holistic approaches to human reliability analysis in the US nuclear power industry. <i>Safety and Reliability</i> , 2005, 25, 21-37.	0.6	5
38	Lessons Learned Using a Full-Scale Glasstop Simulator for Control Room Modernization in Nuclear Power Plants. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2013, 57, 1712-1716.	0.3	5
39	Parts and Wholes: Scenarios and Simulators for Human Performance Studies. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 116-127.	0.6	5
40	The Use of Simulators in Human Factors Studies Within the Nuclear Industry. , 2010, , 3-12.		5
41	Human Reliability Analysis for Computerized Procedures. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2011, 55, 1720-1724.	0.3	4
42	A Computerized Operator Support System Prototype. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2014, 58, 1899-1903.	0.3	4
43	Change Detection for Measuring Attention Allocation. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016, 60, 1813-1817.	0.3	4
44	Transitioning Nuclear Power Plant Main Control Room From Paper Based Procedures to Computer Based Procedures. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2018, 62, 1605-1609.	0.3	4
45	Qualitative or Quantitative Data for Nuclear Control Room Usability Studies? A Pragmatic Approach to Data Collection and Presentation. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2018, 62, 1674-1678.	0.3	4
46	Assessing Dependency in SPAR-H: Some Practical Considerations. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 13-19.	0.6	4
47	The Virtual Human Reliability Analyst. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 250-260.	0.6	4
48	Automatic Imagery Data Analysis for Diagnosing Human Factors in the Outage of a Nuclear Plant. <i>Lecture Notes in Computer Science</i> , 2016, , 604-615.	1.3	4
49	Task and Procedure Level Primitives for Modeling Human Error. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 30-40.	0.6	4
50	Helping users determine video quality of service settings. , 2002, , .		3
51	Extracting and converting quantitative data into human error probabilities. , 2007, , .		3
52	Human Factors and the Nuclear Renaissance. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2008, 52, 763-767.	0.3	3
53	Framework and Application for Modeling Control Room Crew Performance at Nuclear Power Plants. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2008, 52, 930-934.	0.3	3
54	Review of Computerized Procedure Guidelines for Nuclear Power Plant Control Rooms. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2011, 55, 1476-1480.	0.3	3

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55	Overview of a Reconfigurable Simulator for Main Control Room Upgrades in Nuclear Power Plants. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 2050-2054.	0.3	3
56	Human Performance Modeling for Dynamic Human Reliability Analysis. Lecture Notes in Computer Science, 2015, , 223-234.	1.3	3
57	Applications of the rancor microworld nuclear power plant simulator. , 2017, , .		3
58	A Literature Study to Explore Empirically: What Is the Scientific Discipline of Human Factors and What Makes It Distinct from Other Related Fields. Advances in Intelligent Systems and Computing, 2018, , 63-73.	0.6	3
59	Operator Timing of Task Level Primitives for Use in Computation-Based Human Reliability Analysis. Advances in Intelligent Systems and Computing, 2018, , 41-49.	0.6	3
60	User-interface design principles for experimental control software. , 2001, , .		2
61	Improving Human Scaling Reliability. Proceedings of the Human Factors and Ergonomics Society, 2003, 47, 1820-1824.	0.3	2
62	Human reliability for design applications at a Swedish nuclear power plant. , 2009, , .		2
63	Establishing a Value Chain for Human Factors in Nuclear Power Plant Control Room Modernization. Procedia Manufacturing, 2015, 3, 1312-1318.	1.9	2
64	A review of human reliability needs in the U.S. nuclear industry. , 2015, , .		2
65	A study on trust in alarms in a nuclear power plant microworld simulation. , 2015, , .		2
66	Looking for Additional Data Sources for HRA: Microworlds and Beyond. Advances in Intelligent Systems and Computing, 2019, , 310-318.	0.6	2
67	Computerized Operator Support System for Nuclear Power Plant Hybrid Main Control Room. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 1814-1818.	0.3	2
68	The First Decade of the Human Systems Simulation Laboratory: A Brief History of Human Factors Research in Support of Nuclear Power Plants. Advances in Intelligent Systems and Computing, 2021, , 528-535.	0.6	2
69	Using the Human Systems Simulation Laboratory at Idaho National Laboratory for Safety Focused Research. Advances in Intelligent Systems and Computing, 2017, , 193-201.	0.6	2
70	Extrapolating Nuclear Process Control Microworld Simulation Performance Data from Novices to Experts - A Preliminary Analysis. Advances in Intelligent Systems and Computing, 2019, , 283-291.	0.6	2
71	COSSplay: Validating a Computerized Operator Support System Using a Microworld Simulator. Communications in Computer and Information Science, 2016, , 161-166.	0.5	2
72	RevealFlow: A Process Control Visualization Framework. Lecture Notes in Computer Science, 2016, , 145-156.	1.3	2

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73	Text Mining for Procedure-Level Primitives in Human Reliability Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 239-249.	0.6	2
74	Measuring Mutual Awareness for Digital Human-Machine Interfaces: A Questionnaire for Simulator Studies. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 36-46.	0.6	2
75	Mind as Magnitude: Reconsidering Information Processing in Cognitive Engineering. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2005, 49, 1826-1830.	0.3	1
76	Testing Interactive Software. , 2006, , .		1
77	Cognitive virtualization: combining cognitive models and virtual environments. , 2007, , .		1
78	Lessons learned from dependency usage in HERA: Implications for THERP-related HRA methods. , 2007, , .		1
79	A resilience-reliability crosswalk. , 2010, , .		1
80	The initial development of a computerized operator support system. , 2014, , .		1
81	Aligning Task Analysis With Human Reliability Analysis. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2015, 59, 416-420.	0.3	1
82	Dynamic Operations Wayfinding System (DOWS) for Nuclear Power Plants. <i>Communications in Computer and Information Science</i> , 2015, , 497-502.	0.5	1
83	Multidisciplinary Game-based Approach for Generating Student Enthusiasm for Addressing Critical Infrastructure Challenges. , 0, , .		1
84	Environmental Design in Education and Training. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016, 60, 435-439.	0.3	1
85	Findings From an Operator-In-The-Loop Study on System Overview Displays in a Modernized Nuclear Power Plant. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2018, 62, 1658-1662.	0.3	1
86	Operator Resilience to Cyber Interdictions in Nuclear Power Plants. , 2019, , .		1
87	A visualization approach to performing task analysis of time series event log data from a microworld simulation. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2019, 63, 1867-1871.	0.3	1
88	Human Reliability Studies With Microworld Simulators. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2019, 63, 1829-1833.	0.3	1
89	Beyond COSS: Human Factors for Whole Plant Management. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 619-630.	0.6	1
90	A Dual Full-Scope and Reduced-Scope Microworld Simulator Approach to Evaluate the Human Factors of a Coupled Hydrogen Production Concept of Operations. <i>Lecture Notes in Networks and Systems</i> , 2021, , 179-186.	0.7	1

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91	When Dullscreen is Too Dull. Lecture Notes in Networks and Systems, 2021, , 493-501.	0.7	1
92	Developing an Integrated Energy System Interface for Electricity-Hydrogen Hybrid Nuclear Operations. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 92-96.	0.3	1
93	The Role of HCI in Cross-Sector Research on Grand Challenges. Lecture Notes in Computer Science, 2016, , 519-530.	1.3	1
94	Automatic Crane-Related Workflow Control for Nuclear Plant Outages through Computer Vision and Simulation. , 2016, , .		1
95	A Comparison of an Attention Acknowledgement Measure and Eye Tracking: Application of the as Low as Reasonable Assessment (ALARA) Discount Usability Principle for Control System Studies. Lecture Notes in Computer Science, 2017, , 251-260.	1.3	1
96	A Guide for Selecting Appropriate Human Factors Methods and Measures in Control Room Modernization Efforts in Nuclear Power Plants. Advances in Intelligent Systems and Computing, 2019, , 441-452.	0.6	1
97	Putting Gonuke Into Practice: Considerations for Human Factors Evaluations. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 618-622.	0.3	1
98	Multiple Notifications in Desktop Computing. Proceedings of the Human Factors and Ergonomics Society, 2001, 45, 1556-1558.	0.3	0
99	Human factors issues for multi-modular reactor units. , 2007, , .		0
100	Human Reliability Analysis for Computerized Procedures, Part Two: Applicability of Current Methods. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 2026-2030.	0.3	0
101	A Survey of Expert Elicitation Practices for Probabilistic Risk Assessment. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 1447-1451.	0.3	0
102	A tool for assessing the text legibility of digital human machine interfaces. , 2015, , .		0
103	Testing Subtask Quantification Assumptions for Dynamic Human Reliability Analysis in the SPAR-H Method. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1504-1508.	0.3	0
104	Trouble in Paradise: Mutual Awareness, Teamwork, and Hawaii False Ballistic Missile Alert. , 2018, , .		0
105	Designing a Global Learning Environment. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 393-397.	0.3	0
106	Human Reliability Analysis for Verification and Validation of New Designs. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 2170-2174.	0.3	0
107	Fault Understanding, Navigation, and Control Interface: A Visualization System for Cyber-Resilient Operations for Advanced Nuclear Power Plants. Advances in Information Security, 2019, , 237-252.	1.2	0
108	Rancor Hybrid Energy System Microworld. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1760-1764.	0.3	0

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109	Balance-Of-Plant Computerized Operator Support System Implementation. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1795-1799.	0.3	0
110	Simulation Technologies for Integrated Energy Systems Engineering and Operations. Advances in Intelligent Systems and Computing, 2021, , 566-572.	0.6	0
111	Evaluating Operatorsâ€™ Real-Time Mental Workload with Eye Movement Analysis in Nuclear Power Plantsâ€™ Operations. , 2022, , .		0