

Thomas A Ulrich

List of Publications by Year in descending order

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53
papers

352
citations

933447

10
h-index

940533

16
g-index

61
all docs

61
docs citations

61
times ranked

171
citing authors

#	ARTICLE	IF	CITATIONS
1	Auditory detection and localization of approaching vehicles. Accident Analysis and Prevention, 2012, 49, 347-353.	5.7	34
2	Guideline for Operational Nuclear Usability and Knowledge Elicitation (GONUKE). Procedia Manufacturing, 2015, 3, 1327-1334.	1.9	29
3	Computerized Operator Support Systems to Aid Decision Making in Nuclear Power Plants. Procedia Manufacturing, 2015, 3, 5261-5268.	1.9	29
4	The roles of gender, age and cognitive development in children's pedestrian route selection. Child: Care, Health and Development, 2012, 38, 280-286.	1.7	27
5	Developmental differences in auditory detection and localization of approaching vehicles. Accident Analysis and Prevention, 2013, 53, 1-8.	5.7	23
6	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
7	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
8	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
9	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
10	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
11	Detection and localization of approaching vehicles in the presence of competing vehicle noise. Transportation Research Part F: Traffic Psychology and Behaviour, 2014, 26, 151-159.	3.7	10
12	Studying Situation Awareness on a Shoestring Budget. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 1520-1524.	0.3	8
13	Nuclear Reactor Crew Evaluation of a Computerized Operator Support System HMI for Chemical and Volume Control System. Lecture Notes in Computer Science, 2017, , 501-513.	1.3	8
14	Example User Centered Design Process for a Digital Control System in a Nuclear Power Plant. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 1727-1731.	0.3	7
15	Control board digital interface input devices - touchscreen, trackpad, or mouse?. , 2015, , .		6
16	Epistemiation. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1701-1705.	0.3	6
17	Parts and Wholes: Scenarios and Simulators for Human Performance Studies. Advances in Intelligent Systems and Computing, 2019, , 116-127.	0.6	5
18	Uncertainty estimation for kinematic laser tracker measurements. , 2012, , .		4

#	ARTICLE	IF	CITATIONS
19	Playing Charades With Your Car – The Potential of Free-form and Contact-based Gestural Interfaces for Human Vehicle Interaction. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 1643-1647.	0.3	4
20	A Computerized Operator Support System Prototype. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1899-1903.	0.3	4
21	Change Detection for Measuring Attention Allocation. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1813-1817.	0.3	4
22	Transitioning Nuclear Power Plant Main Control Room From Paper Based Procedures to Computer Based Procedures. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1605-1609.	0.3	4
23	Qualitative or Quantitative Data for Nuclear Control Room Usability Studies? A Pragmatic Approach to Data Collection and Presentation. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1674-1678.	0.3	4
24	The Virtual Human Reliability Analyst. Advances in Intelligent Systems and Computing, 2018, , 250-260.	0.6	4
25	Task and Procedure Level Primitives for Modeling Human Error. Advances in Intelligent Systems and Computing, 2018, , 30-40.	0.6	4
26	Applications of the rancor microworld nuclear power plant simulator. , 2017, , .		3
27	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
28	Retrospective Application of Human Reliability Analysis for Oil and Gas Incidents: A Case Study Using the Petro-HRA Method. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 1653-1657.	0.3	2
29	On the Use of Microworlds for an Error Seeding Method to Support Human Error Analysis. , 2019, , .		2
30	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
31	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
32	COSSplay: Validating a Computerized Operator Support System Using a Microworld Simulator. Communications in Computer and Information Science, 2016, , 161-166.	0.5	2
33	RevealFlow: A Process Control Visualization Framework. Lecture Notes in Computer Science, 2016, , 145-156.	1.3	2
34	Text Mining for Procedure-Level Primitives in Human Reliability Analysis. Advances in Intelligent Systems and Computing, 2018, , 239-249.	0.6	2
35	Measuring Mutual Awareness for Digital Human-Machine Interfaces: A Questionnaire for Simulator Studies. Advances in Intelligent Systems and Computing, 2019, , 36-46.	0.6	2
36	The initial development of a computerized operator support system. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
37	Dynamic Operations Wayfinding System (DOWS) for Nuclear Power Plants. Communications in Computer and Information Science, 2015, , 497-502.	0.5	1
38	Findings From an Operator-In-The-Loop Study on System Overview Displays in a Modernized Nuclear Power Plant. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1658-1662.	0.3	1
39	Operator Resilience to Cyber Interdictions in Nuclear Power Plants. , 2019, , .		1
40	A visualization approach to performing task analysis of time series event log data from a microworld simulation. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 1867-1871.	0.3	1
41	Human Reliability Studies With Microworld Simulators. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 1829-1833.	0.3	1
42	Beyond COSS: Human Factors for Whole Plant Management. Advances in Intelligent Systems and Computing, 2020, , 619-630.	0.6	1
43	A Dual Full-Scope and Reduced-Scope Microworld Simulator Approach to Evaluate the Human Factors of a Coupled Hydrogen Production Concept of Operations. Lecture Notes in Networks and Systems, 2021, , 179-186.	0.7	1
44	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
45	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
46	Applications of Dynamic Human Reliability Analysis (dHRA) for Context Aware Operations. Advances in Intelligent Systems and Computing, 2019, , 138-150.	0.6	1
47	Defining Mutual Awareness: Results of Reactor Operator Surveys on the Emergence of Digital Technology in Main Control Rooms. Advances in Intelligent Systems and Computing, 2019, , 58-67.	0.6	1
48	Putting Gonuke Into Practice: Considerations for Human Factors Evaluations. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 618-622.	0.3	1
49	A tool for assessing the text legibility of digital human machine interfaces. , 2015, , .		0
50	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
51	Rancor Hybrid Energy System Microworld. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1760-1764.	0.3	0
52	Balance-Of-Plant Computerized Operator Support System Implementation. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1795-1799.	0.3	0
53	Simulation Technologies for Integrated Energy Systems Engineering and Operations. Advances in Intelligent Systems and Computing, 2021, , 566-572.	0.6	0