Michael C Dorneich

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/663308/publications.pdf

Version: 2024-02-01

143	1,104	567281	610901
papers	citations	15 h-index	24 g-index

157	157	157	738
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Manipulating Stress Responses during Spaceflight Training with Virtual Stressors. Applied Sciences (Switzerland), 2022, 12, 2289.	2.5	8
2	Designing Three-Dimensional Augmented Reality Weather Visualizations to Enhance General Aviation Weather Education. IEEE Transactions on Professional Communication, 2022, 65, 321-336.	0.8	4
3	An evaluation to determine if reading the mind in the eyes scores can be improved through training. PLoS ONE, 2022, 17, e0267579.	2.5	0
4	Augmented Reality Enhanced Thunderstorm Learning Experiences for General Aviation. Journal of Air Transportation, 2022, 30, 113-124.	1.5	3
5	Transdisciplinary Translational Science for Youth Health and Wellness: Introduction to a Special Issue. Child and Youth Care Forum, 2021, 50, 1-12.	1.6	2
6	Application exercise design for teamâ€based learning in online courses. New Directions for Teaching and Learning, 2021, 2021, 41-52.	0.4	6
7	Analysis of Communication, Team Situational Awareness, and Feedback in a Three-Person Intelligent Team Tutoring System. Frontiers in Psychology, 2021, 12, 553015.	2.1	2
8	Evaluation of Playbook Delegation Approach in Human-Autonomy Teaming for Single Pilot Operations. International Journal of Human-Computer Interaction, 2021, 37, 703-716.	4.8	13
9	Individual Differences & Task Attention in Cybersickness: A Call for a Standardized Approach to Data Sharing. , 2021, , .		7
10	Iowa Urban FEWS: Integrating Social and Biophysical Models for Exploration of Urban Food, Energy, and Water Systems. Frontiers in Big Data, 2021, 4, 662186.	2.9	11
11	Toward Humanâ€“Autonomy Teaming in Single-Pilot Operations: Domain Analysis and Requirements. Journal of Air Transportation, 2021, 29, 142-152.	1.5	6
12	Evaluating the Effect of Poor Contrast Ratio in Simulated Sensor-Based Vision Systems on Performance. IEEE Transactions on Human-Machine Systems, 2021, 51, 632-640.	3.5	1
13	The effectiveness of adaptive training for stress inoculation in a simulated astronaut task. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 1541-1545.	0.3	3
14	The Relationship Between Personality, Recalled Cybersickness Severity, and Recalled Cybersickness Recovery Time. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 206-210.	0.3	3
15	Evaluating Human Perception of Autonomous System Teammate-likeness. , 2021, , .		0
16	Development of a Survey Instrument to Measure Display Compellingness. , 2021, , .		0
17	Evaluation of an intelligent team tutoring system for a collaborative two-person problem: Surveillance. Computers in Human Behavior, 2020, 104, 105873.	8.5	9
18	Shoulder Muscular Fatigue From Static Posture Concurrently Reduces Cognitive Attentional Resources. Human Factors, 2020, 62, 589-602.	3.5	16

#	Article	IF	Citations
19	Evaluation of Cognitive Skill Degradation in Flight Planning. Journal of Cognitive Engineering and Decision Making, 2020, 14, 263-287.	2.3	9
20	The Interaction Between Physical and Psychosocial Stressors. Frontiers in Behavioral Neuroscience, 2020, 14, 63.	2.0	7
21	An urban modelling framework for climate resilience in low-resource neighbourhoods. Buildings and Cities, 2020, 1, 453-474.	2.3	7
22	Implications for Using Mobile Ecological Momentary Assessment to Collect Climate Data from Vulnerable Urban Populations. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 273-277.	0.3	0
23	Creating Metrics for Human-Agent Teams. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 349-353.	0.3	2
24	Visually Induced Motion Sickness Susceptibility and Recovery Based on Four Mitigation Techniques. Frontiers in Virtual Reality, 2020, 1, .	3.7	11
25	Designing Training Scenarios for Stressful Spaceflight Emergency Procedures. , 2020, , .		5
26	An agent-based approach to designing residential renewable energy systems. Renewable and Sustainable Energy Reviews, 2019, 112, 1008-1020.	16.4	22
27	An agent-based approach to modeling zero energy communities. Solar Energy, 2019, 191, 193-204.	6.1	31
28	Development of a Learning Capability in Virtual Operator Models. SAE International Journal of Commercial Vehicles, 2019, 12, .	0.4	1
29	Analyzing residential weatherization decisions using hybrid simulation modeling. Building Simulation, 2019, 12, 517-534.	5.6	4
30	The Evaluation of a Playbook Interface for Human-Autonomy Teaming in Single Pilot Operations. , 2019, , .		1
31	Interaction Paradigms: from Human-Human Teaming to Human-Autonomy Teaming. , 2019, , .		6
32	Development Approach of Playbook Interface for Human-Autonomy Teaming in Single Pilot Operations. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 357-361.	0.3	3
33	Assessing the Effect of Sensor Limitations in Enhanced Flight Vision Systems on Pilot Performance. Lecture Notes in Computer Science, 2019, , 449-465.	1.3	1
34	Inclusive Decision-Making. , 2019, , 11-29.		1
35	Modeling expertise and adaptability in virtual operator models. Automation in Construction, 2018, 90, 223-234.	9.8	8
36	Affect-Aware Adaptive Tutoring Based on Humanâ€“Automation Etiquette Strategies. Human Factors, 2018, 60, 510-526.	3.5	10

#	Article	IF	Citations
37	Assessing the validity of facilitated-volunteered geographic information: comparisons of expert and novice ratings. Geo Journal, 2018, 83, 477-488.	3.1	6
38	Development of Design Requirements for a Cognitive Assistant in Space Missions Beyond Low Earth Orbit. Journal of Cognitive Engineering and Decision Making, 2018, 12, 131-152.	2.3	7
39	Creating a Team Tutor Using GIFT. International Journal of Artificial Intelligence in Education, 2018, 28, 286-313.	5.5	18
40	Human Factors and Ergonomics in Diversity, Inclusion and Social Justice Research. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 447-449.	0.3	9
41	Energy Use and Weatherization Practices: Applications for Agent-Based Modeling to Support Vulnerable Populations. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 676-680.	0.3	2
42	Feedback Design Considerations for Intelligent Team Tutoring Systems. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1977-1981.	0.3	1
43	Preliminary Guidelines for Human-Agent Teams in Space Operations Beyond Low-Earth Orbit. , 2018, , .		4
44	An Analysis of Video Games Using the Dimensions of Human-Agent Interaction. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 716-720.	0.3	6
45	Stress Inducing Demands in Virtual Environments. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 2066-2070.	0.3	5
46	Toward Strategic Training on Reading the Mind in the Eyes. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1562-1566.	0.3	1
47	Five Lenses on Team Tutor Challenges: A Multidisciplinary Approach. Research on Managing Groups and Teams, 2018, , 247-277.	0.6	6
48	Evaluating Humanâ€“Automation Etiquette Strategies to Mitigate User Frustration and Improve Learning in Affect-Aware Tutoring. Applied Sciences (Switzerland), 2018, 8, 895.	2.5	3
49	Evaluating the Effectiveness of Graduated Stress Exposure in Virtual Spaceflight Hazard Training. Journal of Cognitive Engineering and Decision Making, 2018, 12, 248-268.	2.3	18
50	Human-system interfaces design. , 2018, , 355-428.		1
51	What Intelligent Team Tutoring Systems Can Learn from Human-Agent Teams. , 2018, , .		0
52	Team Member Perceptions of Alternative Decision Analysis Approaches. EMJ - Engineering Management Journal, 2017, 29, 45-54.	2.3	2
53	Operationalizing the Câ€™s of Teamwork in an Intelligent Tutoring System. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 745-749.	0.3	1
54	Evaluation of Design Feedback Modality in Design for Manufacturability. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	2.9	12

#	Article	IF	Citations
55	The Emotional, Cognitive, Physiological, and Performance Effects of Variable Time Delay in Robotic Teleoperation. International Journal of Social Robotics, 2017, 9, 491-508.	4.6	24
56	Interaction of Automation Visibility and Information Quality in Flight Deck Information Automation. IEEE Transactions on Human-Machine Systems, 2017, 47, 915-926.	3.5	22
57	The Future of Adaptive Tutoring: Wrangling Complexity across Domains, Applications, and Platforms. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 1985-1989.	0.3	0
58	Weatherization Adoption in A Multilayer Social Network. , 2017, , .		2
59	Best Practices for Engaging Underserved Populations. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 130-134.	0.3	9
60	Development of a Functionality Matrix for a Cognitive Assistant on Long Distance Space Missions. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 247-251.	0.3	4
61	<i>Virtual Operator Models for Off-highway Machine Virtual Prototyping</i>. , 2017, , .		0
62	Evaluation of the Display of Cognitive State Feedback to Drive Adaptive Task Sharing. Frontiers in Neuroscience, 2017, 11, 144.	2.8	6
63	Envisioned Concept of Operations for Beyond Low-Earth Orbit: The Collaborative Decision Making Between Human and Cognitive Assistant. , 2017, , .		2
64	Evaluation of Etiquette Strategies to Adapt Feedback In Affect-Aware Tutoring. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 393-397.	0.3	6
65	Using Human Factors to Establish Occupant Task Lists for Office Building Simulations. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 450-454.	0.3	1
66	A Process for Evaluating the Gender and Professionalism of Web Design Elements. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 750-754.	0.3	3
67	A hybrid simulation model for urban weatherization programs. , 2016, , .		3
68	An Evaluation of Cognitive Skill Degradation in Information Automation. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 191-195.	0.3	20
69	Politeness in Machine-Human and Human-Human Interaction. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 279-283.	0.3	20
70	A Bayesian-Influence Model for Error Probability Analysis of Combine Operations in Harvesting. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1414-1418.	0.3	2
71	Virtual operator modeling method for excavator trenching. Automation in Construction, 2016, 70, 14-25.	9.8	22
72	Developing Game-Based Learning Requirements to Increase Female Middle School Students Interest in Computer Science. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 380-384.	0.3	6

#	Article	IF	Citations
73	Graduated Stress Exposure of Spaceflight Hazards in a Virtual Environment. , 2016, , .		2
74	Human Performance Risks and Benefits of Adaptive Systems on the Flight Deck. The International Journal of Aviation Psychology, 2016, 26, 15-35.	0.7	18
75	The Challenges of Building Intelligent Tutoring Systems for Teams. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1981-1985.	0.3	10
76	Analysis of Food Hub Commerce and Participation Using Agent-Based Modeling. Human Factors, 2016, 58, 58-79.	3.5	16
77	Assessing Values-based Sourcing Strategies in Regional Food Supply Networks: An Agent-based Approach. Journal on Policy and Complex Systems, 2016, 2, .	0.1	1
78	Flight deck information automation: A human-in-the loop in-trail procedure simulation study. , 2015, , .		0
79	Mitigating Visually Induced Motion Sickness. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 1839-1843.	0.3	9
80	Evaluation of information quality and automation visibility in Information automation on the flight deck. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 284-288.	0.3	4
81	Measuring the Effectiveness of Team-Based Leaning Outcomes in a Human Factors Course. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 337-341.	0.3	1
82	Operator-Centered Task Analysis. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 841-845.	0.3	0
83	The Effect of Time Delay on Emotion, Arousal, and Satisfaction in Human-Robot Interaction. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 443-447.	0.3	17
84	Flight deck information automation: A human-in-the loop in-trail procedure simulation study. , 2015, , .		0
85	Design and Evaluation of Designer Feedback System in Design for Manufacturability. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 1142-1146.	0.3	4
86	The Team Multiple Errands Test. , 2015, , .		6
87	Comparing Systems Engineering and Project Success in Commercial-focused versus Government-focused Projects. Procedia Computer Science, 2015, 44, 266-274.	2.0	1
88	Mixed-Initiative Control of a Roadable Air Vehicle for Non-Pilots. Journal of Human-robot Interaction, 2015, 4, 38.	2.0	3
89	Incorporation of Future Building Operating Conditions into the Modeling of Buildingâ€“Microclimate Interaction: A Feasibility Approach. , 2015, , .		0
90	A User-Centered Approach to User-Building Interactions. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 2008-2012.	0.3	7

#	Article	IF	Citations
91	Characterization of Information Automation on the Flight Deck. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 295-299.	0.3	5
92	Perceptual Grouping Effects on Cursor Movement Expectations. Human Factors, 2014, 56, 535-552.	3.5	1
93	Improving Coalition Planning by Making Plans Alive. IEEE Intelligent Systems, 2013, 28, 17-25.	4.0	7
94	Analysis of the Characteristics of Adaptive Systems. , 2013, , .		6
95	Human Differences in Navigational Approaches during Tele-Robotic Search. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 625-629.	0.3	0
96	Toward a Characterization of Adaptive Systems. Human Factors, 2012, 54, 1008-1024.	3.5	157
97	Considering Etiquette in the Design of an Adaptive System. Journal of Cognitive Engineering and Decision Making, 2012, 6, 243-265.	2.3	41
98	Analysis of the Risks and Benefits of Flight Deck Adaptive Systems. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 75-79.	0.3	3
99	Human-Centered Design of Decision-Support Systems. Human Factors and Ergonomics, 2012, , 589-622.	0.0	4
100	Human-Centered Design of Decision-Support Systems. , 2012, , 589-621.		7
101	Innovative flight deck function allocation concepts for NextGen. , 2012, , 315-324.		0
102	The Crew Workload Manager: An Open-loop Adaptive System Design for Next Generation Flight Decks. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 16-20.	0.3	3
103	A task-based reach-zone analysis of the Orion Crew Exploration Vehicle controls. , 2011, , .		2
104	Deriving Cursor Control Device Expectations for the Orion Crew Exploration Vehicle. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 1007-1011.	0.3	2
105	The Combat Causal Reasoner Approach to Robotic Control. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 2140-2144.	0.3	0
106	- Etiquette-Based Sociotechnical Design. , 2010, , 344-371.		1
107	Processes Underlying Human Performance. , 2009, , 7-1-7-68.		3
108	A Systematic Tool for Deriving Crew Console Layouts. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 124-128.	0.3	5

#	Article	IF	Citations
109	Rapid image analysis using neural signals. , 2008, , .		24
110	Supporting Real-Time Cognitive State Classification on a Mobile Individual. Journal of Cognitive Engineering and Decision Making, 2007, 1, 240-270.	2.3	23
111	An Evaluation of Real-Time Cognitive State Classification in a Harsh Operational Environment. Proceedings of the Human Factors and Ergonomics Society, 2007, 51, 146-150.	0.3	3
112	Neurophysiologically driven image triage. , 2006, , .		9
113	Evaluation of a Tactile Navigation Cueing System and Real-Time Assessment of Cognitive State. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 2600-2604.	0.3	7
114	Neuro-Physiologically-Driven Adaptive Automation to Improve Decision Making Under Stress. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 410-414.	0.3	6
115	Intelligent Astronaut Associate for Next Generation Space Systems. , 2005, , .		3
116	Characterization of Changes in Electrophysiological Activity in an Operational Environment. Proceedings of the Human Factors and Ergonomics Society, 2005, 49, 1177-1181.	0.3	1
117	A Superior Tool for Airline Operations. Ergonomics in Design, 2004, 12, 18-23.	0.7	7
118	Closing the Loop of an Adaptive System with Cognitive State. Proceedings of the Human Factors and Ergonomics Society, 2004, 48, 590-594.	0.3	7
119	Failure accommodating aircraft control. , 2002, , .		5
120	Active Failure Management for Aircraft Control Recovery. , 2002, , .		3
121	A system design framework-driven implementation of a learning collaboratory. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2002, 32, 200-213.	2.9	17
122	Policy as an Interaction Method for Decision Support Systems. Proceedings of the Human Factors and Ergonomics Society, 2001, 45, 326-330.	0.3	1
123	Aircrew Performance during Emergency Conditions: A Comparison between an Electronic and Traditional Paper Natops. Proceedings of the Human Factors and Ergonomics Society, 2001, 45, 11-15.	0.3	0
124	Techniques for Interacting with Large Information Spaces on Small-Screen Displays. Proceedings of the Human Factors and Ergonomics Society, 2001, 45, 585-589.	0.3	1
125	Achieving Panacea: A Usability Evaluation of a System for Pilot Alerting and Notification of Adverse Conditions - Escape and Avoidance. Proceedings of the Human Factors and Ergonomics Society, 2001, 45, 135-139.	0.3	1
126	The UIUC Virtual Spectrometer: A Java-Based Collaborative Learning Environment. Journal of Engineering Education, 2001, 90, 713-720.	3.0	9

#	Article	IF	Citations
127	GLOBAL OPTIMIZATION ALGORITHMS FOR CHIP LAYOUT AND COMPACTION. Engineering Optimization, 1995, 25, 131-154.	2.6	56
128	An experimental evaluation of weather avoidance using route optimization as a decision aid. , 0, , .		3
129	SPOT: using collaborative technologies for developing collaborative technologies. , 0, , .		2
130	The UIUC Virtual Spectrometer: a Java-based implementation of a learning environment. , 0, , .		3
131	Activity representation and management for crisis action planning. , 0, , .		9
132	The Apprenticeship Learning Object Toolkit: a generalized architecture for a family of computer tutoring systems. , 0, , .		2
133	The systematic application of the apprenticeship learning pedagogy to computer tutorial design. , 0, , .		2
134	CLINT: a prototype logistics collaboratory. , 0, , .		0
135	The design and implementation of a learning collaboratory. , 0, , .		8
136	Design and evaluation of an integrated avionics alerting system. , 0, , .		7
137	Integration of weather information into the dispatcher pre-flight route selection process. , 0, , .		2
138	DOGMA: a diversion management decision-support system in airline operations. , 0, , .		2
139	Providing appropriate situation awareness within a mixed-initiative control system. , 0, , .		7
140	A playbook interface for mixed initiative control of multiple unmanned vehicle teams. , 0, , .		24
141	Mitigating cognitive bottlenecks via an augmented cognition adaptive system. , 0, , .		11
142	Cognitive State Estimation Based on EEG for Augmented Cognition. , 0, , .		10
143	Autonomy as a Teammate: Evaluation of Teammate-Likeness. Journal of Cognitive Engineering and Decision Making, 0, , 155534342211080.	2.3	3