

Lewis Chuang

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

811
citations

687335

13
h-index

713444

21
g-index

64
all docs

64
docs citations

64
times ranked

738
citing authors

#	ARTICLE	IF	CITATIONS
1	Assisting Drivers with Ambient Take-Over Requests in Highly Automated Driving. , 2016, , .		102
2	Why are moving faces easier to recognize?. Visual Cognition, 2005, 12, 429-442.	1.6	93
3	Human-Centered Design and Evaluation of Haptic Cueing for Teleoperation of Multiple Mobile Robots. IEEE Transactions on Cybernetics, 2013, 43, 597-609.	9.5	54
4	"Where's Pinky?". , 2017, , .		51
5	Feel the Movement. , 2018, , .		41
6	Eye and pointer coordination in search and selection tasks. , 2010, , .		32
7	Recognizing Face Identity from Natural and Morphed Smiles. Quarterly Journal of Experimental Psychology, 2006, 59, 801-808.	1.1	27
8	Steering Demands Diminish the Early-P3, Late-P3 and RON Components of the Event-Related Potential of Task-Irrelevant Environmental Sounds. Frontiers in Human Neuroscience, 2016, 10, 73.	2.0	27
9	A Survey of Viewpoint Selection Methods for Polygonal Models. Entropy, 2018, 20, 370.	2.2	27
10	A Hidden Markov Framework to Capture Humanâ€™Machine Interaction in Automated Vehicles. International Journal of Human-Computer Interaction, 2019, 35, 947-955.	4.8	24
11	The Placebo Effect of Artificial Intelligence in Humanâ€™Computer Interaction. ACM Transactions on Computer-Human Interaction, 2022, 29, 1-32.	5.7	22
12	Take-over requests during highly automated driving: How should they be presented and under what conditions?. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 66, 214-225.	3.7	21
13	A comparison of geometric- and regression-based mobile gaze-tracking. Frontiers in Human Neuroscience, 2014, 8, 200.	2.0	20
14	A Dynamic Object-Processing Network: Metric Shape Discrimination of Dynamic Objects by Activation of Occipitotemporal, Parietal, and Frontal Cortices. Cerebral Cortex, 2008, 18, 1302-1313.	2.9	18
15	Auditory Task Irrelevance: A Basis for Inattentive Deafness. Human Factors, 2018, 60, 428-440.	3.5	18
16	Robust Gaze Features for Enabling Language Proficiency Awareness. , 2017, , .		18
17	Looking for Discriminating Is Different from Looking for Lookingâ€™s Sake. PLoS ONE, 2012, 7, e45445.	2.5	16
18	Design Guidelines for Reliability Communication in Autonomous Vehicles. , 2018, , .		16

#	ARTICLE	IF	CITATIONS
19	How do image complexity, task demands and looking biases influence human gaze behavior?. Pattern Recognition Letters, 2013, 34, 723-730.	4.2	14
20	Virtual Reality Adaptation Using Electrodermal Activity to Support the User Experience. Big Data and Cognitive Computing, 2022, 6, 55.	4.7	14
21	Learned Non-Rigid Object Motion is a View-Invariant Cue to Recognizing Novel Objects. Frontiers in Computational Neuroscience, 2012, 6, 26.	2.1	12
22	Using EEG to Understand why Behavior to Auditory In-vehicle Notifications Differs Across Test Environments. , 2017, , .		12
23	Use the Right Sound for the Right Job. , 2018, , .		12
24	Asymmetric saccade reaction times to smooth pursuit. Experimental Brain Research, 2015, 233, 2527-2538.	1.5	9
25	Acoustic Cues Increase Situational Awareness in Accident Situations: A VR Car-Driving Study. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3281-3291.	8.0	9
26	Mechanical design of a tree gripper for miniature tree-climbing robots. , 2011, , .		8
27	1st Workshop on Ethically Inspired User Interfaces for Automated Driving. , 2016, , .		8
28	Effects of anxiety and cognitive load on instrument scanning behavior in a flight simulation. , 2016, , .		8
29	Eye movement planning on Single-Sensor-Single-Indicator displays is vulnerable to user anxiety and cognitive load. Journal of Eye Movement Research, 2017, 10, .	0.8	7
30	Visual Demands of Walking Are Reflected in Eye-Blink-Evoked EEG-Activity. Applied Sciences (Switzerland), 2022, 12, 6614.	2.5	7
31	Looming Auditory Collision Warnings for Semi-Automated Driving. , 2018, , .		6
32	The Effect of Road Bumps on Touch Interaction in Cars. , 2018, , .		6
33	1st Workshop on Situational Awareness in Semi-Automated Vehicles. , 2016, , .		5
34	1st Workshop on Understanding Automation. , 2017, , .		5
35	Looking Through "Rose-Tinted" Glasses: The Influence of Tint on Visual Affective Processing. Frontiers in Human Neuroscience, 2019, 13, 187.	2.0	5
36	Saccade reaction time asymmetries during task-switching in pursuit tracking. Experimental Brain Research, 2013, 230, 271-281.	1.5	4

#	ARTICLE	IF	CITATIONS
37	Eye Tracking and Visualization. Mathematics and Visualization, 2017, , .	0.6	4
38	The time course of auditory looming cues in redirecting visuo-spatial attention. Scientific Reports, 2019, 9, 743.	3.3	4
39	Recognizing novel deforming objects. , 2005, , .		3
40	Measuring an operator's maneuverability performance in the haptic teleoperation of multiple robots. , 2011, , .		3
41	Reading the mobile brain. , 2017, , .		3
42	Tinted lenses affect our physiological responses to affective pictures: An EEG/ERP study. Frontiers in Human Neuroscience, 0, 12, .	2.0	3
43	An evaluation of haptic cues on the tele-operator's perceptual awareness of multiple UAVs' environments. , 2011, , .		2
44	System Delay in Flight Simulators Impairs Performance and Increases Physiological Workload. Lecture Notes in Computer Science, 2014, , 3-11.	1.3	2
45	Unsupervised Clustering of EOG as a Viable Substitute for Optical Eye Tracking. Mathematics and Visualization, 2017, , 151-167.	0.6	2
46	The Influence of Visualization on Control Performance in a Flight Simulator. Lecture Notes in Computer Science, 2014, , 202-211.	1.3	2
47	Measuring unrestrained gaze on wall-sized displays. , 2010, , .		1
48	Towards Using Gaze Properties to Detect Language Proficiency. , 2016, , .		1
49	Developing a Highly Automated Driving Scenario to Investigate User Intervention. , 2017, , .		1
50	The embodied vehicle. , 2019, , .		1
51	Gaze-Assisted Pointing for Wall-Sized Displays. Lecture Notes in Computer Science, 2009, , 9-12.	1.3	1
52	On the Cognitive Demands of Different Controller Dynamics. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 1042-1046.	0.3	0
53	Data-driven approaches to unrestricted gaze-tracking benefit from saccade filtering. , 2016, , .		0
54	Tutorial on Design and Evaluation Methods for Attention Directing Cues. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
55	Modulation of vection latencies in the full-body illusion. PLoS ONE, 2018, 13, e0209189.	2.5	0
56	Towards Artificial Systems: What Can We Learn from Human Perception?. Lecture Notes in Computer Science, 2010, , 1-3.	1.3	0
57	Attentional Biases during Steering Behavior. Lecture Notes in Computer Science, 2013, , 21-27.	1.3	0
58	Error Visualization and Information-Seeking Behavior for Air-Vehicle Control. Lecture Notes in Computer Science, 2015, , 3-11.	1.3	0
59	The looming benefit in driving with ACC. Frontiers in Human Neuroscience, 0, 12, .	2.0	0
60	Restricted field of view during training impacts gaze strategy for aircraft handling. Frontiers in Human Neuroscience, 0, 12, .	2.0	0
61	A potential for distraction: Using task-irrelevant complex environment sounds to probe closed-loop control demands. Frontiers in Human Neuroscience, 0, 12, .	2.0	0
62	Investigating the Impact of Assistive Technologies on Working Memory Load in Manual Assembly through Electroencephalography. Frontiers in Human Neuroscience, 0, 12, .	2.0	0