

# Zhizhong Li

## List of Publications by Year in descending order

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115  
papers

1,639  
citations

304602

22  
h-index

360920

35  
g-index

117  
all docs

117  
docs citations

117  
times ranked

1200  
citing authors

#	ARTICLE	IF	CITATIONS
1	Task complexity: A review and conceptualization framework. <i>International Journal of Industrial Ergonomics</i> , 2012, 42, 553-568.	1.5	241
2	Mental workload measurement for emergency operating procedures in digital nuclear power plants. <i>Ergonomics</i> , 2013, 56, 1070-1085.	1.1	106
3	Re-engineering of the design process for concurrent engineering. <i>Computers and Industrial Engineering</i> , 2000, 38, 479-491.	3.4	79
4	Anthropometric measurement of the Chinese elderly living in the Beijing area. <i>International Journal of Industrial Ergonomics</i> , 2007, 37, 303-311.	1.5	57
5	Some improvements on adaptive genetic algorithms for reliability-related applications. <i>Reliability Engineering and System Safety</i> , 2010, 95, 120-126.	5.1	54
6	An ergonomics study of computerized emergency operating procedures: Presentation style, task complexity, and training level. <i>Reliability Engineering and System Safety</i> , 2008, 93, 1500-1511.	5.1	40
7	A solid model-based milling process simulation and optimization system integrated with CAD/CAM. <i>Journal of Materials Processing Technology</i> , 2003, 138, 513-517.	3.1	39
8	Expert judgments for performance shaping Factorsâ€™ multiplier design in human reliability analysis. <i>Reliability Engineering and System Safety</i> , 2020, 194, 106343.	5.1	39
9	Rapid preliminary helmet shell design based on three-dimensional anthropometric head data. <i>Journal of Engineering Design</i> , 2008, 19, 45-54.	1.1	37
10	Feedrate optimization for variant milling process based on cutting force prediction. <i>International Journal of Advanced Manufacturing Technology</i> , 2004, 24, 541-552.	1.5	36
11	Optimization of the number and positions of fixture locators in the peripheral milling of a low-rigidity workpiece. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 33, 668-676.	1.5	36
12	Human Error Data Collection and Comparison with Predictions by SPARâ€™H. <i>Risk Analysis</i> , 2014, 34, 1706-1719.	1.5	35
13	Validation of a three-dimensional hand scanning and dimension extraction method with dimension data. <i>Ergonomics</i> , 2008, 51, 1672-1692.	1.1	33
14	Comparison between conventional and digital nuclear power plant main control rooms: A task complexity perspective, part I: Overall results and analysis. <i>International Journal of Industrial Ergonomics</i> , 2016, 51, 2-9.	1.5	33
15	Error control and calibration in three-dimensional anthropometric measurement of the hand by laser scanning with glass support. <i>Measurement: Journal of the International Measurement Confederation</i> , 2007, 40, 21-27.	2.5	31
16	Risk illusions in car following: Is a smaller headway always perceived as more dangerous?. <i>Safety Science</i> , 2013, 53, 25-33.	2.6	31
17	An Intelligent Feature-Based Design for Stamping System. <i>International Journal of Advanced Manufacturing Technology</i> , 2001, 18, 193-200.	1.5	26
18	STEP-based product modeling for concurrent stamped part and die development. <i>Computers in Industry</i> , 2001, 46, 75-94.	5.7	25

#	ARTICLE	IF	CITATIONS
19	Dependability estimation for non-Markov consecutive-k-out-of-n: F repairable systems by fast simulation. <i>Reliability Engineering and System Safety</i> , 2007, 92, 293-299.	5.1	25
20	A spaceflight operation complexity measure and its experimental validation. <i>International Journal of Industrial Ergonomics</i> , 2009, 39, 756-765.	1.5	25
21	Identifying key performance shaping factors in digital main control rooms of nuclear power plants: A risk-based approach. <i>Reliability Engineering and System Safety</i> , 2017, 167, 264-275.	5.1	24
22	Multi-resolution shape description and clustering of three-dimensional head data. <i>Ergonomics</i> , 2009, 52, 251-269.	1.1	22
23	How does information congruence influence diagnosis performance?. <i>Ergonomics</i> , 2015, 58, 924-934.	1.1	22
24	Individualization of Head-Related Transfer Function for Three-Dimensional Virtual Auditory Display: A Review. <i>Lecture Notes in Computer Science</i> , 2007, , 397-407.	1.0	21
25	Mutual awareness: Enhanced by interface design and improving team performance in incident diagnosis under computerized working environment. <i>International Journal of Industrial Ergonomics</i> , 2016, 54, 65-72.	1.5	20
26	Comparison between conventional and digital nuclear power plant main control rooms: A task complexity perspective, Part II: Detailed results and analysis. <i>International Journal of Industrial Ergonomics</i> , 2016, 51, 10-20.	1.5	19
27	Design and Evaluation of a Team Mutual Awareness Toolkit for Digital Interfaces of Nuclear Power Plant Context. <i>International Journal of Human-Computer Interaction</i> , 2017, 33, 744-755.	3.3	18
28	Effects of integrated designs of alarm and process information on diagnosis performance in digital nuclear power plants. <i>Ergonomics</i> , 2017, 60, 1653-1666.	1.1	17
29	A study on calibration of coefficients in end milling forces model. <i>International Journal of Advanced Manufacturing Technology</i> , 2005, 25, 652-662.	1.5	16
30	Measurements of voluntary joint range of motion of the Chinese elderly living in Beijing area by a photographic method. <i>International Journal of Industrial Ergonomics</i> , 2006, 36, 861-867.	1.5	16
31	Comparison of task complexity measures for emergency operating procedures: Convergent validity and predictive validity. <i>Reliability Engineering and System Safety</i> , 2014, 121, 289-293.	5.1	16
32	An integrated computer-based procedure for teamwork in digital nuclear power plants. <i>Ergonomics</i> , 2015, 58, 1303-1313.	1.1	16
33	User-defined information sharing for team situation awareness and teamwork. <i>Ergonomics</i> , 2019, 62, 1098-1112.	1.1	15
34	Automatic Imitation of Risky Behavior: A Study of Simulated Driving in China. <i>Traffic Injury Prevention</i> , 2012, 13, 442-449.	0.6	14
35	A Review of Alarm System Design for Advanced Control Rooms of Nuclear Power Plants. <i>International Journal of Human-Computer Interaction</i> , 2018, 34, 477-490.	3.3	14
36	Toward Understanding the Relationship between Task Complexity and Task Performance. <i>Lecture Notes in Computer Science</i> , 2011, , 192-200.	1.0	13

#	ARTICLE	IF	CITATIONS
37	Estimation of Dependability Measures and Parameter Sensitivities of a Consecutive- $k$ -out-of- $n$ : F Repairable System With $(k-1)$ -Step Markov Dependence by Simulation. IEEE Transactions on Reliability, 2008, 57, 71-83.	3.5	12
38	Validation of "alarm bar" alternative interface for digital control panel design: A preliminary experimental study. International Journal of Industrial Ergonomics, 2016, 51, 43-51.	1.5	12
39	Refraction effect analysis of using a hand-held laser scanner with glass support for 3D anthropometric measurement of the hand: A theoretical study. Measurement: Journal of the International Measurement Confederation, 2008, 41, 842-850.	2.5	11
40	Influence of step complexity and presentation style on step performance of computerized emergency operating procedures. Reliability Engineering and System Safety, 2009, 94, 670-674.	5.1	11
41	Multi-resolution description of three-dimensional anthropometric data for design simplification. Applied Ergonomics, 2009, 40, 807-810.	1.7	11
42	Association of Individual Characteristics with Teleoperation Performance. Aerospace Medicine and Human Performance, 2016, 87, 772-780.	0.2	11
43	An XML-based implementation of manufacturing route sheet documents for context-sensitive and web-based process planning. International Journal of Computer Integrated Manufacturing, 2008, 21, 647-656.	2.9	10
44	Estimating in vivo passive forces of the index finger muscles: Exploring model parameters. Journal of Biomechanics, 2010, 43, 1358-1363.	0.9	10
45	Workload measurement using physiological and activity measures for validation test: A case study for the main control room of a nuclear power plant. International Journal of Industrial Ergonomics, 2020, 78, 102974.	1.5	10
46	Measurements of team workload: A time pressure and scenario complexity study for maritime operation tasks. International Journal of Industrial Ergonomics, 2021, 83, 103110.	1.5	9
47	A Single Video Camera Postural Assessment System to Measure Rotation of the Shoulder During Computer Use. Journal of Applied Biomechanics, 2012, 28, 343-348.	0.3	8
48	Predictive capability of cognitive ability and cognitive style for spaceflight emergency operation performance. International Journal of Industrial Ergonomics, 2016, 54, 48-56.	1.5	8
49	Developing a taxonomy of coordination behaviours in nuclear power plant control rooms during emergencies. Ergonomics, 2017, 60, 1634-1652.	1.1	8
50	Team Situation Awareness: A Review of Definitions and Conceptual Models. Lecture Notes in Computer Science, 2017, , 406-415.	1.0	8
51	Mathematical Methods for Shape Analysis and form Comparison in 3D Anthropometry: A Literature Review. Lecture Notes in Computer Science, 2007, , 161-170.	1.0	8
52	Individualized head-related transfer functions based on population grouping. Journal of the Acoustical Society of America, 2008, 124, 2708-2710.	0.5	7
53	A study on the effect of training interval on the use of computerized emergency operating procedures. Reliability Engineering and System Safety, 2011, 96, 250-256.	5.1	7
54	Procedure and information displays in advanced nuclear control rooms: experimental evaluation of an integrated design. Ergonomics, 2017, 60, 1158-1172.	1.1	7

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55	Influence of Information Layout on Diagnosis Performance. IEEE Transactions on Human-Machine Systems, 2018, 48, 316-323.	2.5	7
56	Correlations between Human Performance in Information Seeking, Information Integration, and Overall Process in Diagnostic Tasks. International Journal of Human-Computer Interaction, 2020, 36, 285-294.	3.3	7
57	Effects of Cognitive Style and Information Acquisition Method on Diagnosis Task Performance. International Journal of Human-Computer Interaction, 2020, 36, 1231-1241.	3.3	7
58	E-DREAM: A Web-Based Platform for Virtual Agile Manufacturing. Concurrent Engineering Research and Applications, 2002, 10, 165-183.	2.0	6
59	Identification of Anthropometric Measurements for Individualization of Head-Related Transfer Functions. Acta Acustica United With Acustica, 2009, 95, 168-177.	0.8	6
60	Effects of Information Organization and Presentation on Human Performance in Simulated Main Control Room Procedure Tasks. Human Factors and Ergonomics in Manufacturing, 2015, 25, 713-723.	1.4	6
61	An integrated alarm display design in digital nuclear power plants. Nuclear Engineering and Design, 2016, 305, 503-513.	0.8	6
62	Predictors for Human Performance in Information Seeking, Information Integration, and Overall Process in Diagnostic Tasks. International Journal of Human-Computer Interaction, 2019, 35, 1831-1841.	3.3	6
63	Coordination breakdowns in nuclear power plant control rooms: cause identification and behaviour-sequence analysis. Ergonomics, 2020, 63, 660-681.	1.1	6
64	Improved method to individualize head-related transfer function using anthropometric measurements. Acoustical Science and Technology, 2008, 29, 388-390.	0.3	5
65	Spare parts allocation by improved genetic algorithm and Monte Carlo simulation. International Journal of Systems Science, 2012, 43, 997-1006.	3.7	5
66	Identifying and clustering performance shaping factors for nuclear power plant commissioning tasks. Human Factors and Ergonomics in Manufacturing, 2021, 31, 42-65.	1.4	5
67	Conceptualizing Performance Shaping Factors in Main Control Rooms of Nuclear Power Plants: A Preliminary Study. Lecture Notes in Computer Science, 2016, , 322-333.	1.0	5
68	Secondary Task Method for Workload Measurement in Alarm Monitoring and Identification Tasks. Lecture Notes in Computer Science, 2013, , 346-354.	1.0	5
69	Quantitative relationship between time margin and human reliability. International Journal of Industrial Ergonomics, 2020, 78, 102977.	1.5	4
70	Using Three-Dimensional (3D) Anthropometric Data in Design. , 2012, , 3001-3013.		4
71	A new method for the fast simulation of models of highly dependable Markov system. Science in China Series D: Earth Sciences, 2005, 48, 23.	0.9	3
72	Analysis of alignment influence on 3-D anthropometric statistics. Tsinghua Science and Technology, 2005, 10, 623-626.	4.1	3

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73	A comparative study of musical navigation methods for visually impaired users of GUI systems. , 2007, , .		3
74	Refraction effect analysis of using a hand-held laser scanner with glass support for 3D anthropometric measurement of the hand: Strategy comparison and application. Measurement: Journal of the International Measurement Confederation, 2008, 41, 851-861.	2.5	3
75	Resolution Influence on 3D Anthropometric Data Clustering for Fitting Design. Industrial Health, 2009, 47, 578-585.	0.4	3
76	Simulated Spaceflight Operations Under Sleep Deprivation and Confinement. Aerospace Medicine and Human Performance, 2015, 86, 865-874.	0.2	3
77	Effects of cognitive characteristics and information format on teleoperation performance: A cognitive fit perspective. International Journal of Industrial Ergonomics, 2021, 84, 103157.	1.5	3
78	Assessment of Mental Workload Using Physiological Measures with Random Forests in Maritime Teamwork. Lecture Notes in Computer Science, 2020, , 100-110.	1.0	3
79	Operating Events in Chinese Nuclear Power Plants: A Preliminary Analysis. Advances in Intelligent Systems and Computing, 2018, , 336-343.	0.5	3
80	Description of Diagnosis Process: A Review of Existing Measures and a New Approach. Advances in Intelligent Systems and Computing, 2018, , 344-353.	0.5	3
81	Introducing Human Performance Modeling in Digital Nuclear Power Industry. Lecture Notes in Computer Science, 2013, , 27-36.	1.0	3
82	Anthropometric Topography. , 2006, , .		3
83	Adaptive interaction in a 3D product structure browsing system for maintenance training. Human Factors and Ergonomics in Manufacturing, 2008, 18, 14-29.	1.4	2
84	Comparisons of 3D Shape Clustering with Different Face Area Definitions. Lecture Notes in Computer Science, 2009, , 55-63.	1.0	2
85	Data extraction and analysis for integrated system validation of a nuclear power plant. Nuclear Engineering and Design, 2013, 265, 826-832.	0.8	2
86	Investigating gait adjustments and body sway while walking across wooden scaffold boards. Ergonomics, 2015, 58, 1581-1588.	1.1	2
87	The influence of the shared-display configuration on group decision making. International Journal of Industrial Ergonomics, 2016, 51, 59-67.	1.5	2
88	Using IDHEAS to Analyze Incident Reports in Nuclear Power Plant Commissioning: A Case Study. Lecture Notes in Computer Science, 2020, , 90-103.	1.0	2
89	Identifying Macrocognitive Function Failures from Accident Reports: A Case Study. Advances in Intelligent Systems and Computing, 2017, , 29-40.	0.5	2
90	Effects of Information Acquisition Method on Diagnostic Task Performance Using Digitalized Interfaces. Advances in Intelligent Systems and Computing, 2018, , 300-309.	0.5	2

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91	Physician Communication Behaviors that Predict Patient Trust in Outpatient Departments. Lecture Notes in Computer Science, 2015, , 361-373.	1.0	2
92	A pilot measurement of head-related transfer function blur in spatial localization. , 2007, , .		1
93	A study of morphological influence on head-related transfer functions. , 2007, , .		1
94	Block Division for 3D Head Shape Clustering. Lecture Notes in Computer Science, 2009, , 64-71.	1.0	1
95	Influence of Personality Factors and Time Pressure on Human Performance When Using Digital Interfaces. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 863-867.	0.2	1
96	Accelerated proportional degradation hazards-odds model in accelerated degradation test. Journal of Systems Engineering and Electronics, 2015, 26, 397-406.	1.1	1
97	Impacts of Automation Reliability and Failure Modes on Operatorsâ€™ Performance in Security Screening. Lecture Notes in Computer Science, 2019, , 137-149.	1.0	1
98	Validation of an Adaptive Alarm Interface Design for Digital Control Panels. International Journal of Human-Computer Interaction, 2019, 35, 1437-1448.	3.3	1
99	Use of collaborative concept mapping in team diagnosis. Human Factors and Ergonomics in Manufacturing, 2021, 31, 469-483.	1.4	1
100	Combined Effects of Sleep Deprivation, Narrow Space, Social Isolation and High Cognitive Workload on Cognitive Ability of Chinese Operators. Lecture Notes in Computer Science, 2009, , 311-316.	1.0	1
101	A Case Study of Multi-resolution Representation of Heads. Lecture Notes in Computer Science, 2007, , 171-178.	1.0	1
102	Alignment Influence on 3D Anthropometric Data Clustering. The Ergonomics Open Journal, 2008, 1, 62-66.	1.8	1
103	A 3D Method for Fit Assessment of a Sizing System. Lecture Notes in Computer Science, 2009, , 737-743.	1.0	1
104	Evaluation of Human-System Interfaces with Different Information Organization Using an Eye Tracker. Lecture Notes in Computer Science, 2013, , 288-295.	1.0	1
105	Influence of control modes and complexity on performance of manual-control spacecraft rendezvous and docking. , 2007, , .		0
106	Special issue of selected papers presented at ICQR2005. Reliability Engineering and System Safety, 2007, 92, 277.	5.1	0
107	Human Factors in Digital Industrial Systems. International Journal of Industrial Ergonomics, 2016, 51, 1.	1.5	0
108	Improving Human-System Interface Design Through Human Behavior Assessment in the Control Room of Nuclear Power Plants. Lecture Notes in Electrical Engineering, 2017, , 143-151.	0.3	0

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109	Effects of search strategies on fault diagnosis performance. , 2017, , .		0
110	A short review of mental models of operators in main control rooms of nuclear power plants. , 2017, , .		0
111	A note on the letter "Improved method to individualize head-related transfer function using anthropometric measurements" (Vol. 29, 2008: 388-390). Acoustical Science and Technology, 2009, 30, 305-305.	0.3	0
112	Influence of Time Delay on Team Performance in Space Robotic Teleoperation. Lecture Notes in Computer Science, 2016, , 189-197.	1.0	0
113	Effect of Speech Display on Team Mutual Awareness and Diagnosis Performance. Lecture Notes in Computer Science, 2016, , 256-265.	1.0	0
114	The Effects of Task Complexity and Spatial Ability on Teleoperation Performance. Lecture Notes in Computer Science, 2017, , 42-50.	1.0	0
115	A Study on Visual Workload Components: Effects of Component Combination and Scenario Complexity on Mental Workload in Maritime Operation Tasks. Lecture Notes in Computer Science, 2019, , 20-28.	1.0	0