

Simon M Hsiang

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,392
citations

331259

21
h-index

360668

35
g-index

81
all docs

81
docs citations

81
times ranked

1224
citing authors

#	ARTICLE	IF	CITATIONS
1	Human-centred approaches in slipperiness measurement. <i>Ergonomics</i> , 2001, 44, 1167-1199.	1.1	107
2	The Relation Between Pain Intensity, Disability, and the Episodic Nature of Chronic and Recurrent Low Back Pain. <i>Spine</i> , 2000, 25, 834-841.	1.0	102
3	Causes of Variation in Construction Project Task Starting Times and Duration. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011, 137, 663-677.	2.0	94
4	Using Pajek and Centrality Analysis to Identify a Social Network of Construction Trades. <i>Journal of Construction Engineering and Management - ASCE</i> , 2012, 138, 1192-1201.	2.0	82
5	Low back pain (LBP) and lifting technique "A review. <i>International Journal of Industrial Ergonomics</i> , 1997, 19, 59-74.	1.5	69
6	Biomechanical simulation of manual lifting using spacetime optimization. <i>Journal of Biomechanics</i> , 2001, 34, 527-532.	0.9	60
7	Development of methodology in biomechanical simulation of manual lifting. <i>International Journal of Industrial Ergonomics</i> , 1994, 13, 271-288.	1.5	54
8	The effects of obesity on lifting performance. <i>Applied Ergonomics</i> , 2008, 39, 93-98.	1.7	51
9	The effect of gait speed and load carrying on the reliability of ground reaction forces. <i>Safety Science</i> , 2002, 40, 639-657.	2.6	50
10	Watching What You Say. <i>Topics in Geriatric Rehabilitation</i> , 2011, 27, 268-277.	0.2	39
11	Meteorological Conditions and Self-Report of Low Back Pain. <i>Spine</i> , 1998, 23, 2096-2102.	1.0	35
12	Timing of Activation of the Erector Spinae and Hamstrings During a Trunk Flexion and Extension Task. <i>Spine</i> , 2001, 26, 418-425.	1.0	35
13	Gait characteristics of children with hemiplegic cerebral palsy before and after modified constraint-induced movement therapy. <i>Disability and Rehabilitation</i> , 2010, 32, 402-408.	0.9	33
14	A computerized video coding system for biomechanical analysis of lifting tasks. <i>International Journal of Industrial Ergonomics</i> , 2003, 32, 239-250.	1.5	30
15	Video based lifting technique coding system. <i>Ergonomics</i> , 1998, 41, 239-256.	1.1	26
16	Accuracy of Pain Recall in Chronic and Recurrent Low Back Pain. <i>Journal of Occupational Rehabilitation</i> , 1999, 9, 169-178.	1.2	26
17	Three different lifting strategies for controlling the motion patterns of the external load. <i>Ergonomics</i> , 1997, 40, 928-939.	1.1	25
18	Perceived Clutter in Advanced Cockpit Displays: Measurement and Modeling with Experienced Pilots. <i>Aviation, Space, and Environmental Medicine</i> , 2008, 79, 1007-1018.	0.6	25

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19	The effects of a suspended-load backpack on gait. <i>Gait and Posture</i> , 2009, 29, 151-153.	0.6	24
20	Prediction accuracy in estimating joint angle trajectories using a video posture coding method for sagittal lifting tasks. <i>Ergonomics</i> , 2010, 53, 1039-1047.	1.1	23
21	Benefit of Cooperation among Subcontractors in Performing High-Reliable Planning. <i>Journal of Management in Engineering - ASCE</i> , 2018, 34, .	2.6	23
22	Causes of Time Buffer and Duration Variation in Construction Project Tasks: Comparison of Perception to Reality. <i>Journal of Construction Engineering and Management - ASCE</i> , 2014, 140, .	2.0	21
23	Incorporating the dynamics of epidemics in simulation models of healthcare systems. <i>Simulation Modelling Practice and Theory</i> , 2014, 43, 67-78.	2.2	20
24	The 'ergonomics paradigm': Foundations, challenges and future directions. <i>Theoretical Issues in Ergonomics Science</i> , 2002, 3, 285-305.	1.0	19
25	Preliminary Engineering Cost Estimation Model for Bridge Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013, 139, 1259-1267.	2.0	19
26	Application of Time Buffers to Construction Project Task Durations. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013, 139, .	2.0	18
27	The Effect of Industrial Back Belts and Breathing Technique on Trunk and Pelvic Coordination During a Lifting Task. <i>Spine</i> , 1999, 24, 1124-1130.	1.0	17
28	Using Last Planner and a Risk Assessment Matrix to Reduce Variation in Mechanical Related Construction Tasks. <i>Journal of Construction Engineering and Management - ASCE</i> , 2012, 138, 491-498.	2.0	17
29	Task Variation and the Social Network of Construction Trades. <i>Journal of Management in Engineering - ASCE</i> , 2014, 30, 05014008.	2.6	17
30	Case Studies of the Allocation and Reduction of Time Buffer through Use of the Last Planner System. <i>Journal of Construction Engineering and Management - ASCE</i> , 2015, 141, .	2.0	17
31	Characterisation of mental models in a virtual reality-based multitasking scenario using measures of situation awareness. <i>Theoretical Issues in Ergonomics Science</i> , 2010, 11, 99-118.	1.0	16
32	Causes and Penalties of Variation: Case Study of a Precast Concrete Slab Production Facility. <i>Journal of Construction Engineering and Management - ASCE</i> , 2012, 138, 775-785.	2.0	13
33	From Social Network to Data Envelopment Analysis: Identifying Benchmarks at the Site Management Level. <i>Journal of Construction Engineering and Management - ASCE</i> , 2014, 140, 04014028.	2.0	13
34	The use of Taguchi's methods for the evaluation of industrial knife design. <i>Ergonomics</i> , 1997, 40, 476-490.	1.1	12
35	Three-dimensional rodent motion analysis and neurodegenerative disorders. <i>Journal of Neuroscience Methods</i> , 2014, 231, 31-37.	1.3	12
36	Development of a set of equations describing joint trajectories during para-sagittal lifting. <i>Journal of Biomechanics</i> , 1999, 32, 871-876.	0.9	10

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37	Modeling of residual stress distribution in D2 steel via grinding dynamics using a second-order damping system. Journal of Materials Processing Technology, 2008, 198, 313-322.	3.1	10
38	Effects of Production Control Strategy and Duration Variance on Productivity and Work in Process: Simulation-Based Investigation. Journal of Construction Engineering and Management - ASCE, 2012, 138, 1035-1043.	2.0	9
39	Human-machine co-construct intelligence on horizon year load in long term spatial load forecasting. , 2009, , .		8
40	Social network conformity and construction work plan reliability. Automation in Construction, 2017, 78, 1-12.	4.8	8
41	How Does Experience with Delay Shape Managers' Making-Do Decision: Random Forest Approach. Journal of Management in Engineering - ASCE, 2020, 36, .	2.6	8
42	Social Network based sensitivity analysis for patient flow using computer simulation. Computers and Industrial Engineering, 2015, 88, 264-272.	3.4	7
43	A Method for Dynamic Measurement of Lumbar Lordosis. Journal of Spinal Disorders, 2000, 13, 118-123.	1.1	6
44	Using mutual information to capture major concerns of postural control in a tossing activity. Journal of Biomechanics, 2015, 48, 1105-1111.	0.9	6
45	Continuous Response Monitoring of Relative Time-to-Contact Judgments: Does Effective Information Change During an Approach Event?. Ecological Psychology, 2016, 28, 1-22.	0.7	5
46	Social network analysis for construction crews. International Journal of Construction Management, 2019, 19, 113-127.	2.2	5
47	Prioritizing collaborative scheduling practices based on their impact on project performance. Construction Management and Economics, 2022, 40, 618-637.	1.8	5
48	Dynamic loading performance of fasciocutaneous flaps and implications for gait. Clinical Biomechanics, 2007, 22, 478-485.	0.5	4
49	Modeling trade-off between time-optimal and minimum energy in saccade main sequence. Biological Cybernetics, 2011, 104, 65-73.	0.6	4
50	Fault Detection Using Human-Machine Co-Construct Intelligence in Semiconductor Manufacturing Processes. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 297-305.	1.4	4
51	Influence of cognitive and perceptual processing on multitask performance with locomotion. Theoretical Issues in Ergonomics Science, 2015, 16, 273-298.	1.0	4
52	Analysis of Workflow Variability's Impacts on Trade and Project Performance. Procedia Engineering, 2016, 145, 281-287.	1.2	4
53	â€œOopsâ€–Simulation: Cost-Benefits Trade-Off Analysis of Reliable Planning for Construction Activities. Journal of Construction Engineering and Management - ASCE, 2016, 142, 04016030.	2.0	4
54	Constraint Removal and Work Plan Reliability: A Bridge Project Case Study. , 0, , .		4

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55	Exploit Social Distancing in Construction Scheduling: Visualize and Optimize Spaceâ€“Timeâ€“Workforce Tradeoff. <i>Journal of Management in Engineering - ASCE</i> , 2022, 38, .	2.6	4
56	Cost of temperature history data uncertainties in short term electric load forecasting. , 2010, , .		3
57	The effect of handle design on upper extremity posture and muscle activity during a pouring task. <i>Ergonomics</i> , 2013, 56, 1326-1335.	1.1	3
58	Improving Effectiveness of Constraints Removal in Construction Planning Meetings: Information-Theoretic Approach. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020, 146, 04020015.	2.0	3
59	Comparative Study on Perception of Causes for Construction Task Delay in China and the United States. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021, 147, 04020176.	2.0	3
60	The Development of Fault Diagnosis Methodologies using Hierarchical Clustering and Small World Network Stratification. , 2006, , .		2
61	Multi-objective optimisation of gas carburising process in batch furnaces with endothermic carburising atmosphere. <i>Surface Engineering</i> , 2009, 25, 43-49.	1.1	2
62	An Optimal-Control Model of Visionâ€“Gait Interaction in a Virtual Walkway. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2009, 39, 156-166.	5.5	2
63	Causes of Variation in Construction Task Starting Times and Duration. , 2010, , .		2
64	Musculoskeletal Loading During Gravitational Transitions Improvements in Postural Control. , 2003, , .		1
65	Comparison and Optimization of Impact Behavior of Triangular Tubes. , 2004, , .		1
66	Optimal Control in Virtual Walkway. , 2006, , .		1
67	Coordination indices between lifting kinematics and kinetics. <i>International Journal of Industrial Ergonomics</i> , 2008, 38, 1062-1066.	1.5	1
68	Simulation of Manual Material Handling tasks in three dimensional spaces. <i>International Journal of Human Factors Modelling and Simulation</i> , 2008, 1, 197.	0.1	1
69	The error of L5/S1 joint moment calculation in a body-centered non-inertial reference frame when the fictitious force is ignored. <i>Journal of Biomechanics</i> , 2013, 46, 1943-1947.	0.9	1
70	Stochastic Resonance in Time-to-Contact Judgments. <i>Fluctuation and Noise Letters</i> , 2015, 14, 1550021.	1.0	1
71	Spacecraft Optimization Layout and Volume (SOLV): Development of a model to assess habitable volume. , 2017, , .		1
72	Synthesis of Variability of Angular Trajectories during Para-Sagittal Lifting. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 1999, 43, 733-736.	0.2	0

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73	Intra-Abdominal Pressure and Postural Control of Lifting with and without a Backbelt. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 213-216.	0.2	0
74	Generating Optimal Motion Patterns for Para-Sagittal Lifting Tasks. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 292-295.	0.2	0
75	Musculoskeletal Loading via Running with Loads during Simulated Gravitational Transitions: Improvements in a Precision Stepping Postural Control Task. , 0, , .		0
76	Correlation of reactant particle size on residual stresses of nanostructured NiAl generated by self-propagating high-temperature synthesis. Journal of Materials Research, 2009, 24, 2079-2088.	1.2	0
77	An empirical validation of a base-excitation model to predict harvestable energy from a suspended-load backpack system. Theoretical Issues in Ergonomics Science, 2010, 11, 546-560.	1.0	0
78	Development of a Dementia-Specific Gait Profile: A Computational Approach. , 2011, , .		0
79	Prescribing Human Motion Patterns for Assembly Processes Associated With Manual Lifting. , 1997, , .		0
80	Manager Perception and Decision for Making-Do in China v.s. In the U.S.. , 0, , .		0