

Simon M Hsiang

List of Publications by Year in descending order

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70
papers

1,264
citations

371628

19
h-index

372325

34
g-index

70
all docs

70
docs citations

70
times ranked

1169
citing authors

#	ARTICLE	IF	CITATIONS
1	Human-centred approaches in slipperiness measurement. <i>Ergonomics</i> , 2001, 44, 1167-1199.	2.2	108
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.	2.1	103
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.	4.0	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.	4.0	84
5	Low back pain (LBP) and lifting technique "A review. <i>International Journal of Industrial Ergonomics</i> , 1997, 19, 59-74.	2.7	70
6	Biomechanical simulation of manual lifting using spacetime optimization. <i>Journal of Biomechanics</i> , 2001, 34, 527-532.	2.1	60
7	Development of methodology in biomechanical simulation of manual lifting. <i>International Journal of Industrial Ergonomics</i> , 1994, 13, 271-288.	2.7	54
8	The effects of obesity on lifting performance. <i>Applied Ergonomics</i> , 2008, 39, 93-98.	3.2	53
9	The effect of gait speed and load carrying on the reliability of ground reaction forces. <i>Safety Science</i> , 2002, 40, 639-657.	5.0	50
10	Timing of Activation of the Erector Spinae and Hamstrings During a Trunk Flexion and Extension Task. <i>Spine</i> , 2001, 26, 418-425.	2.1	36
11	Meteorological Conditions and Self-Report of Low Back Pain. <i>Spine</i> , 1998, 23, 2096-2102.	2.1	35
12	Benefit of Cooperation among Subcontractors in Performing High-Reliable Planning. <i>Journal of Management in Engineering - ASCE</i> , 2018, 34, .	4.8	27
13	Video based lifting technique coding system. <i>Ergonomics</i> , 1998, 41, 239-256.	2.2	26
14	Accuracy of Pain Recall in Chronic and Recurrent Low Back Pain. <i>Journal of Occupational Rehabilitation</i> , 1999, 9, 169-178.	2.3	26
15	Three different lifting strategies for controlling the motion patterns of the external load. <i>Ergonomics</i> , 1997, 40, 928-939.	2.2	25
16	The effects of a suspended-load backpack on gait. <i>Gait and Posture</i> , 2009, 29, 151-153.	1.6	25
17	Prediction accuracy in estimating joint angle trajectories using a video posture coding method for sagittal lifting tasks. <i>Ergonomics</i> , 2010, 53, 1039-1047.	2.2	23
18	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, .	4.0	21

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19	Incorporating the dynamics of epidemics in simulation models of healthcare systems. <i>Simulation Modelling Practice and Theory</i> , 2014, 43, 67-78.	4.0	20
20	The 'ergonomics paradigm': Foundations, challenges and future directions. <i>Theoretical Issues in Ergonomics Science</i> , 2002, 3, 285-305.	1.7	19
21	Preliminary Engineering Cost Estimation Model for Bridge Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013, 139, 1259-1267.	4.0	19
22	Application of Time Buffers to Construction Project Task Durations. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013, 139, .	4.0	18
23	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.	2.1	17
24	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.	4.0	17
25	Task Variation and the Social Network of Construction Trades. <i>Journal of Management in Engineering - ASCE</i> , 2014, 30, 05014008.	4.8	17
26	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, .	4.0	17
27	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.	4.0	14
28	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.	4.0	13
29	Prioritizing collaborative scheduling practices based on their impact on project performance. <i>Construction Management and Economics</i> , 2022, 40, 618-637.	3.2	12
30	Using Images to Detect, Plan, Analyze, and Coordinate a Smart Contract in Construction. <i>Journal of Management in Engineering - ASCE</i> , 2023, 39, .	4.8	12
31	Modeling of residual stress distribution in D2 steel via grinding dynamics using a second-order damping system. <i>Journal of Materials Processing Technology</i> , 2008, 198, 313-322.	6.4	11
32	Development of a set of equations describing joint trajectories during para-sagittal lifting. <i>Journal of Biomechanics</i> , 1999, 32, 871-876.	2.1	10
33	Human-machine co-construct intelligence on horizon year load in long term spatial load forecasting. , 2009, , .		9
34	Effects of Production Control Strategy and Duration Variance on Productivity and Work in Process: Simulation-Based Investigation. <i>Journal of Construction Engineering and Management - ASCE</i> , 2012, 138, 1035-1043.	4.0	9
35	Social network conformity and construction work plan reliability. <i>Automation in Construction</i> , 2017, 78, 1-12.	10.0	9
36	How Does Experience with Delay Shape Managers' Making-Do Decision: Random Forest Approach. <i>Journal of Management in Engineering - ASCE</i> , 2020, 36, .	4.8	8

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37	Using mutual information to capture major concerns of postural control in a tossing activity. Journal of Biomechanics, 2015, 48, 1105-1111.	2.1	7
38	Social Network based sensitivity analysis for patient flow using computer simulation. Computers and Industrial Engineering, 2015, 88, 264-272.	6.5	7
39	Exploit Social Distancing in Construction Scheduling: Visualize and Optimize Space-Time-Workforce Tradeoff. Journal of Management in Engineering - ASCE, 2022, 38, .	4.8	7
40	Space-Time-Workforce Visualization and Conditional Capacity Synthesis in Uncertainty. Journal of Management in Engineering - ASCE, 2023, 39, .	4.8	7
41	A Method for Dynamic Measurement of Lumbar Lordosis. Journal of Spinal Disorders, 2000, 13, 118-123.	0.7	6
42	Social network analysis for construction crews. International Journal of Construction Management, 2019, 19, 113-127.	3.2	6
43	âœOopsâœSimulation: Cost-Benefits Trade-Off Analysis of Reliable Planning for Construction Activities. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	4.0	5
44	Constraint Removal and Work Plan Reliability: A Bridge Project Case Study. , 0, , .		5
45	Dynamic loading performance of fasciocutaneous flaps and implications for gait. Clinical Biomechanics, 2007, 22, 478-485.	1.3	4
46	Modeling trade-off between time-optimal and minimum energy in saccade main sequence. Biological Cybernetics, 2011, 104, 65-73.	1.3	4
47	Fault Detection Using Human-Machine Co-Construct Intelligence in Semiconductor Manufacturing Processes. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 297-305.	2.0	4
48	Analysis of Workflow Variability's Impacts on Trade and Project Performance. Procedia Engineering, 2016, 145, 281-287.	1.2	4
49	Improving Effectiveness of Constraints Removal in Construction Planning Meetings: Information-Theoretic Approach. Journal of Construction Engineering and Management - ASCE, 2020, 146, 04020015.	4.0	4
50	Comparative Study on Perception of Causes for Construction Task Delay in China and the United States. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	4.0	4
51	Cost of temperature history data uncertainties in short term electric load forecasting. , 2010, , .		3
52	The effect of handle design on upper extremity posture and muscle activity during a pouring task. Ergonomics, 2013, 56, 1326-1335.	2.2	3
53	An Optimal-Control Model of Vision-Gait Interaction in a Virtual Walkway. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 156-166.	5.3	2
54	Causes of Variation in Construction Task Starting Times and Duration. , 2010, , .		2

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55	A Mechanism for Smart Contracts to Mediate Production Bottlenecks Under Constraints. , 0, , .		2
56	Musculoskeletal Loading During Gravitational Transitions Improvements in Postural Control. , 2003, , .		1
57	Optimal Control in Virtual Walkway. , 2006, , .		1
58	Coordination indices between lifting kinematics and kinetics. International Journal of Industrial Ergonomics, 2008, 38, 1062-1066.	2.7	1
59	Simulation of Manual Material Handling tasks in three dimensional spaces. International Journal of Human Factors Modelling and Simulation, 2008, 1, 197.	0.8	1
60	The error of L5/S1 joint moment calculation in a body-centered non-inertial reference frame when the fictitious force is ignored. Journal of Biomechanics, 2013, 46, 1943-1947.	2.1	1
61	Stochastic Resonance in Time-to-Contact Judgments. Fluctuation and Noise Letters, 2015, 14, 1550021.	1.4	1
62	Situation Awareness Based Smart Contract for Modular Construction. Lecture Notes in Civil Engineering, 2023, , 363-373.	0.0	1
63	Synthesis of Variability of Angular Trajectories during Para-Sagittal Lifting. Proceedings of the Human Factors and Ergonomics Society, 1999, 43, 733-736.	0.5	0
64	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.	0.5	0
65	Generating Optimal Motion Patterns for Para-Sagittal Lifting Tasks. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 292-295.	0.5	0
66	Musculoskeletal Loading via Running with Loads during Simulated Gravitational Transitions: Improvements in a Precision Stepping Postural Control Task. SAE technical paper series, 0, , .	0.0	0
67	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.	2.6	0
68	Prescribing Human Motion Patterns for Assembly Processes Associated With Manual Lifting. , 1997, , .		0
69	Manager Perception and Decision for Making-Do in China v.s. In the U.S.. , 0, , .		0
70	A Mechanism for Smart Contracts to Mediate Production Bottlenecks Under Constraints. , 0, , .		0