

# Sungjoo Hwang

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40  
papers

825  
citations

14  
h-index

28  
g-index

42  
ext. papers

1,101  
ext. citations

5.2  
avg, IF

4.82  
L-index

| #  | Paper                                                                                                                                                                                                                                     | IF  | Citations |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 40 | EEG-based workers' stress recognition at construction sites. <i>Automation in Construction</i> , <b>2018</b> , 93, 315-324                                                                                                                | 9.6 | 119       |
| 39 | What drives construction workers' acceptance of wearable technologies in the workplace?: Indoor localization and wearable health devices for occupational safety and health. <i>Automation in Construction</i> , <b>2017</b> , 84, 31-41  | 9.6 | 96        |
| 38 | Measuring Workers' Emotional State during Construction Tasks Using Wearable EEG. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2018</b> , 144, 04018050                                                           | 4.2 | 73        |
| 37 | Visualization, Information Modeling, and Simulation: Grand Challenges in the Construction Industry. <i>Journal of Computing in Civil Engineering</i> , <b>2016</b> , 30, 04016035                                                         | 5   | 72        |
| 36 | EEG Signal-Processing Framework to Obtain High-Quality Brain Waves from an Off-the-Shelf Wearable EEG Device. <i>Journal of Computing in Civil Engineering</i> , <b>2018</b> , 32, 04017070                                               | 5   | 64        |
| 35 | Wristband-type wearable health devices to measure construction workers' physical demands. <i>Automation in Construction</i> , <b>2017</b> , 83, 330-340                                                                                   | 9.6 | 60        |
| 34 | Feasibility analysis of heart rate monitoring of construction workers using a photoplethysmography (PPG) sensor embedded in a wristband-type activity tracker. <i>Automation in Construction</i> , <b>2016</b> , 71, 372-381              | 9.6 | 59        |
| 33 | Automated hazardous area identification using laborers' actual and optimal routes. <i>Automation in Construction</i> , <b>2016</b> , 65, 21-32                                                                                            | 9.6 | 42        |
| 32 | Hybrid Simulation Framework for Immediate Facility Restoration Planning after a Catastrophic Disaster. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2016</b> , 142, 04016026                                     | 4.2 | 25        |
| 31 | Postdisaster Interdependent Built Environment Recovery Efforts and the Effects of Governmental Plans: Case Analysis Using System Dynamics. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2015</b> , 141, 04014081 | 4.2 | 21        |
| 30 | Information Retrieval Framework for Hazard Identification in Construction. <i>Journal of Computing in Civil Engineering</i> , <b>2015</b> , 29, 04014052                                                                                  | 5   | 21        |
| 29 | Automated Time-Series Cost Forecasting System for Construction Materials. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2012</b> , 138, 1259-1269                                                                 | 4.2 | 21        |
| 28 | Feasibility of Field Measurement of Construction Workers' Valence Using a Wearable EEG Device <b>2017</b> ,                                                                                                                               |     | 20        |
| 27 | A Supervised Learning-Based Construction Workers' Stress Recognition Using a Wearable Electroencephalography (EEG) Device <b>2018</b> ,                                                                                                   |     | 19        |
| 26 | Modeling the dynamics of urban development project: Focusing on self-sufficient city development. <i>Mathematical and Computer Modelling</i> , <b>2013</b> , 57, 2082-2093                                                                |     | 14        |
| 25 | Boost, Control, or Both of Korean Housing Market: 831 Countermeasures. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2010</b> , 136, 693-701                                                                      | 4.2 | 14        |
| 24 | Dynamic analysis of the effects of mortgage-lending policies in a real estate market. <i>Mathematical and Computer Modelling</i> , <b>2013</b> , 57, 2106-2120                                                                            |     | 11        |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 23 | Comparison of Emergency Response Abilities and Evacuation Performance Involving Vulnerable Occupants in Building Fire Situations. <i>Sustainability</i> , <b>2020</b> , 12, 87                                      | 3.6  | 10 |
| 22 | Distributed and interoperable simulation for comprehensive disaster response management in facilities. <i>Automation in Construction</i> , <b>2018</b> , 93, 12-21                                                  | 9.6  | 9  |
| 21 | DYNAMIC MODELING FOR APARTMENT BRAND MANAGEMENT IN THE HOUSING MARKET. <i>International Journal of Strategic Property Management</i> , <b>2017</b> , 21, 357-370                                                    | 1.9  | 6  |
| 20 | Damage Propagation from Component Level to System Level in the Electricity Sector. <i>Journal of Infrastructure Systems</i> , <b>2018</b> , 24, 04018016                                                            | 2.9  | 6  |
| 19 | Dynamic Feasibility Analysis of the Housing Supply Strategies in a Recession: Korean Housing Market. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2013</b> , 139, 148-160                  | 4.2  | 5  |
| 18 | KOREA N REAL ESTATE MARKET AND BOOSTING POLICIES: FOCUSING ON MORTGAGE LOANS. <i>International Journal of Strategic Property Management</i> , <b>2010</b> , 14, 157-172                                             | 1.9  | 4  |
| 17 | Physiology-based dynamic muscle fatigue model for upper limbs during construction tasks. <i>International Journal of Industrial Ergonomics</i> , <b>2020</b> , 78, 102984                                           | 2.9  | 4  |
| 16 | Construction workers' awareness of safety information depending on physical and mental load. <i>Journal of Asian Architecture and Building Engineering</i> , 1-11                                                   | 1    | 4  |
| 15 | Challenges and Opportunities of Understanding Construction Workers' Physical Demands through Field Energy Expenditure Measurements Using a Wearable Activity Tracker <b>2016</b> ,                                  |      | 4  |
| 14 | Productivity Forecasting of Newly Added Workers Based on Time-Series Analysis and Site Learning. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2015</b> , 141, 05015008                     | 4.2  | 3  |
| 13 | Analysis of Building Emergency Evacuation Process with Interactions in Human Behaviors. <i>Korean Journal of Construction Engineering and Management</i> , <b>2013</b> , 14, 49-60                                  |      | 3  |
| 12 | Relationship between rework of engineering drawing tasks and stress level measured from physiological signals. <i>Automation in Construction</i> , <b>2021</b> , 124, 103560                                        | 9.6  | 3  |
| 11 | Extended technology acceptance model to explain the mechanism of modular construction adoption. <i>Journal of Cleaner Production</i> , <b>2022</b> , 342, 130963                                                    | 10.3 | 3  |
| 10 | High Level Architecture (HLA) compliant distributed simulation platform for disaster preparedness and response in facility management <b>2016</b> ,                                                                 |      | 2  |
| 9  | The Feasibility of Information-Entropy-Based Behavioral Analysis for Detecting Environmental Barriers. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,                 | 4.6  | 2  |
| 8  | Factors affecting bike-sharing system demand by inferred trip purpose: Integration of clustering of travel patterns and geospatial data analysis. <i>International Journal of Sustainable Transportation</i> , 1-14 | 3.6  | 2  |
| 7  | Understanding the Role of Dynamic Risk Perception during Fire Evacuations Using Agent-Based Modeling <b>2016</b> ,                                                                                                  |      | 1  |
| 6  | A Framework for Post-disaster Facility Restoration Management: Needs and Requirements for the Use of Hybrid Simulation <b>2014</b> ,                                                                                |      | 1  |

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|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 5 | System Dynamics Modeling of Korean Lease Contract Chonseil. <i>Korean Journal of Construction Engineering and Management</i> , <b>2012</b> , 13, 153-164                                                                                   |     | 1 |
| 4 | Identifying shoplifting behaviors and inferring behavior intention based on human action detection and sequence analysis. <i>Advanced Engineering Informatics</i> , <b>2021</b> , 50, 101399                                               | 7-4 | 1 |
| 3 | Korean public rental housing for residential stability of the younger population: analysis of policy impacts using system dynamics. <i>Journal of Asian Architecture and Building Engineering</i> , <b>2019</b> , 18, 180-189 <sup>1</sup> |     | 0 |
| 2 | Understanding the impact of the walking environment on pedestrian perception and comprehension of the situation. <i>Journal of Transport and Health</i> , <b>2021</b> , 23, 101267                                                         | 3   | 0 |
| 1 | Agent-embedded system dynamics (aeSD) modeling approach for analyzing worker policies: a research case on construction worker absenteeism. <i>Construction Innovation</i> , <b>2021</b> , 21, 379-397                                      | 4-1 |   |