

# Sanguk Han

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10428148/publications.pdf>

Version: 2024-02-01

43  
papers

1,843  
citations

361045

20  
h-index

395343

33  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1152  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Computer vision techniques for construction safety and health monitoring. <i>Advanced Engineering Informatics</i> , 2015, 29, 239-251.  | 4.0 | 349       |
| 2  | A vision-based motion capture and recognition framework for behavior-based safety management. <i>Automation in Construction</i> , 2013, 35, 131-141.  | 4.8 | 266       |
| 3  | Toward an understanding of the impact of production pressure on safety performance in construction operations. <i>Accident Analysis and Prevention</i> , 2014, 68, 106-116.   | 3.0 | 131       |
| 4  | Vision-Based Detection of Unsafe Actions of a Construction Worker: Case Study of Ladder Climbing. <i>Journal of Computing in Civil Engineering</i> , 2013, 27, 635-644.   | 2.5 | 120       |
| 5  | Long short-term memory recurrent neural network for modeling temporal patterns in long-term power forecasting for solar PV facilities: Case study of South Korea. <i>Journal of Cleaner Production</i> , 2020, 250, 119476. | 4.6 | 104       |
| 6  | An Automated Biomechanical Simulation Approach to Ergonomic Job Analysis for Workplace Design. <i>Journal of Construction Engineering and Management - ASCE</i> , 2015, 141, .  | 2.0 | 76        |
| 7  | Motion Data-Driven Biomechanical Analysis during Construction Tasks on Sites. <i>Journal of Computing in Civil Engineering</i> , 2015, 29, .  | 2.5 | 68        |
| 8  | Empirical assessment of a RGB-D sensor on motion capture and action recognition for construction worker monitoring. <i>Visualization in Engineering</i> , 2013, 1, .  | 8.8 | 55        |
| 9  | Digital numerical map-oriented estimation of solar energy potential for site selection of photovoltaic solar panels on national highway slopes. <i>Applied Energy</i> , 2019, 242, 57-68.                                   | 5.1 | 55        |
| 10 | Comparative Study of Motion Features for Similarity-Based Modeling and Classification of Unsafe Actions in Construction. <i>Journal of Computing in Civil Engineering</i> , 2014, 28, .                                     | 2.5 | 49        |
| 11 | Tracking-based 3D human skeleton extraction from stereo video camera toward an on-site safety and ergonomic analysis. <i>Construction Innovation</i> , 2016, 16, 348-367.   | 1.5 | 48        |
| 12 | A fuzzy logic approach to posture-based ergonomic analysis for field observation and assessment of construction manual operations. <i>Canadian Journal of Civil Engineering</i> , 2016, 43, 294-303.                        | 0.7 | 42        |
| 13 | Finding Causal Paths between Safety Management System Factors and Accident Precursors. <i>Journal of Management in Engineering - ASCE</i> , 2020, 36, .   | 2.6 | 36        |
| 14 | BIM-Based Registration and Localization of 3D Point Clouds of Indoor Scenes Using Geometric Features for Augmented Reality. <i>Remote Sensing</i> , 2020, 12, 2302.   | 1.8 | 36        |
| 15 | Multi-channel convolutional neural network for integration of meteorological and geographical features in solar power forecasting. <i>Applied Energy</i> , 2021, 295, 117083.   | 5.1 | 36        |
| 16 | Identification and Association of High-Priority Safety Management System Factors and Accident Precursors for Proactive Safety Assessment and Control. <i>Journal of Management in Engineering - ASCE</i> , 2018, 34, .      | 2.6 | 32        |
| 17 | A simulation and visualization-based framework of labor efficiency and safety analysis for prevention through design and planning. <i>Automation in Construction</i> , 2018, 96, 310-323.                                   | 4.8 | 30        |
| 18 | Implementation experiments on convolutional neural network training using synthetic images for 3D pose estimation of an excavator on real images. <i>Automation in Construction</i> , 2022, 133, 103996.                    | 4.8 | 28        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | 2D Drawing Visualization Framework for Applying Projection-Based Augmented Reality in a Panelized Construction Manufacturing Facility: Proof of Concept. <i>Journal of Computing in Civil Engineering</i> , 2019, 33, .                     | 2.5 | 27        |
| 20 | An integrated ergonomics framework for evaluation and design of construction operations. <i>Automation in Construction</i> , 2018, 95, 72-85.   | 4.8 | 23        |
| 21 | Case Study of Solar Photovoltaic Power-Plant Site Selection for Infrastructure Planning Using a BIM-GIS-Based Approach. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8785.   | 1.3 | 22        |
| 22 | Case-Based Reasoning Approach for Assessing Safety Performance Using Safety-Related Measures. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018, 144, 04018088.   | 2.0 | 19        |
| 23 | Stochastic Modeling for Assessment of Human Perception and Motion Sensing Errors in Ergonomic Analysis. <i>Journal of Computing in Civil Engineering</i> , 2017, 31, 04017010.  | 2.5 | 18        |
| 24 | Vision-Based Motion Detection for Safety Behavior Analysis in Construction. , 2012, , .   |     | 17        |
| 25 | Integrating Case-Based Reasoning and Simulation Modeling for Testing Strategies to Control Safety Performance. <i>Journal of Computing in Civil Engineering</i> , 2018, 32, .   | 2.5 | 17        |
| 26 | Digital elevation model-based convolutional neural network modeling for searching of high solar energy regions. <i>Applied Energy</i> , 2020, 262, 114588.  | 5.1 | 17        |
| 27 | Vision-Based Inspection Approach Using a Projector-Camera System for Off-Site Quality Control in Modular Construction: Experimental Investigation on Operational Conditions. <i>Journal of Computing in Civil Engineering</i> , 2021, 35, . | 2.5 | 14        |
| 28 | BIM-Based Spatial Augmented Reality (SAR) for Architectural Design Collaboration: A Proof of Concept. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5915.   | 1.3 | 13        |
| 29 | Application of Dimension Reduction Techniques for Motion Recognition: Construction Worker Behavior Monitoring. , 2011, , .  |     | 12        |
| 30 | Convolutional neural network modeling strategy for fall-related motion recognition using acceleration features of a scaffolding structure. <i>Automation in Construction</i> , 2021, 130, 103857.   | 4.8 | 11        |
| 31 | Current Status and Future Directions of Deep Learning Applications for Safety Management in Construction. <i>Sustainability</i> , 2021, 13, 13579.  | 1.6 | 11        |
| 32 | A Stereo Vision-Based Approach to Marker-Less Motion Capture for On-Site Kinematic Modeling of Construction Worker Tasks. , 2014, , .   |     | 10        |
| 33 | Micro-motion level simulation for efficiency analysis and duration estimation of manual operations. <i>Automation in Construction</i> , 2016, 71, 443-452.  | 4.8 | 10        |
| 34 | Potential of Convolutional Neural Network-Based 2D Human Pose Estimation for On-Site Activity Analysis of Construction Workers. , 2017, , .   |     | 9         |
| 35 | Silhouette-Based On-Site Human Action Recognition in Single-View Video. , 2016, , .   |     | 8         |
| 36 | Proof-of-concept of a two-stage approach for selecting suitable slopes on a highway network for solar photovoltaic systems: A case study in South Korea. <i>Renewable Energy</i> , 2020, 151, 366-377.                                      | 4.3 | 8         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Empirical Testing for Use of Safety Related Measures at the Organizational Level to Assess and Control the On-Site Risk Level. Journal of Construction Engineering and Management - ASCE, 2017, 143, . | 2.0 | 6         |
| 38 | Manual operation simulation using motion-time analysis toward labor productivity estimation: A case study of concrete pouring operations. Automation in Construction, 2021, 126, 103669.               | 4.8 | 5         |
| 39 | 3D Registration of Indoor Point Clouds for Augmented Reality. , 2019, , .  |     | 2         |
| 40 | Evaluation of Construction Workersâ€™ Emotional States during Virtual Reality-Based Safety Training. , 2022, , .   |     | 2         |
| 41 | Simulation-based analysis of operational efficiency and safety in a virtual environment. , 2016, , .   |     | 1         |
| 42 | Post-Simulation Visualization of Construction Manual Operations Using Motion Capture Data. , 2017, , .   |     | 0         |
| 43 | A Reinforcement Learning Approach to 4D Crane Lifting Simulation for Tower Crane Cycle Time Estimation. , 2022, 1, 13-18.  |     | 0         |