

# Jun Wang

## List of Publications by Year in Descending Order

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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.

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|-------------------|-------------------------|----------------|-----------------|
| 59<br>papers      | 2,237<br>citations      | 24<br>h-index  | 47<br>g-index   |
| 66<br>ext. papers | 2,959<br>ext. citations | 4.7<br>avg, IF | 5.72<br>L-index |

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 59 | Automatic Scaffolding Workface Assessment for Activity Analysis through Machine Learning. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4143   | 2.6 | 0         |
| 58 | Vision-Based Pavement Marking Detection and Condition Assessment: A Case Study. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3152   | 2.6 | 3         |
| 57 | Developing a hybrid approach to extract constraints related information for constraint management. <i>Automation in Construction</i> , <b>2021</b> , 124, 103563   | 9.6 | 4         |
| 56 | Lean management framework for improving maintenance operation: development and application in the oil and gas industry. <i>Production Planning and Control</i> , <b>2021</b> , 32, 585-602                             | 4.3 | 20        |
| 55 | Computer Vision Techniques in Construction: A Critical Review. <i>Archives of Computational Methods in Engineering</i> , <b>2021</b> , 28, 3383-3397   | 7.8 | 72        |
| 54 | Data-Driven Fire Safety Management at Building Construction Sites: Leveraging CNN. <i>Journal of Management in Engineering - ASCE</i> , <b>2021</b> , 37, 04020108   | 5.3 | 9         |
| 53 | Ontological knowledge base for concrete bridge rehabilitation project management. <i>Automation in Construction</i> , <b>2021</b> , 121, 103428  | 9.6 | 39        |
| 52 | Cost and environmental impact estimation methodology and potential impact factors in offshore oil and gas platform decommissioning: A review. <i>Environmental Impact Assessment Review</i> , <b>2021</b> , 87, 106536 | 5.3 | 5         |
| 51 | Self-Organized Crowd Dynamics: Research on Earthquake Emergency Response Patterns of Drill-Trained Individuals Based on GIS and Multi-Agent Systems Methodology. <i>Sensors</i> , <b>2021</b> , 21,                    | 3.8 | 4         |
| 50 | An Efficient Decision Support System for Flood Inundation Management Using Intermittent Remote-Sensing Data. <i>Remote Sensing</i> , <b>2021</b> , 13, 2818  | 5   | 2         |
| 49 | Hybrid deep learning model for automating constraint modelling in advanced working packaging. <i>Automation in Construction</i> , <b>2021</b> , 127, 103733  | 9.6 | 8         |
| 48 | BIM and GIS Applications in Bridge Projects: A Critical Review. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6207   | 2.6 | 1         |
| 47 | BIM-Based Tools for Managing Construction and Demolition Waste (CDW): A Scoping Review. <i>Sustainability</i> , <b>2021</b> , 13, 8427   | 3.6 | 2         |
| 46 | Understanding the key takeaway of construction robots towards construction automation. <i>Engineering, Construction and Architectural Management</i> , <b>2021</b> , ahead-of-print,                                   | 3.1 | 1         |
| 45 | Generative Design in Building Information Modelling (BIM): Approaches and Requirements. <i>Sensors</i> , <b>2021</b> , 21,   | 3.8 | 7         |
| 44 | Evaluating the economic and social benefits of multiutility tunnels with an agent-based simulation approach. <i>Engineering, Construction and Architectural Management</i> , <b>2020</b> , ahead-of-print,             | 3.1 | 1         |
| 43 | Opportunities and Challenges for Chinese Elderly Care Industry in Smart Environment Based on Occupants' Needs and Preferences. <i>Frontiers in Psychology</i> , <b>2020</b> , 11, 1029                                 | 3.4 | 3         |

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| 42 | Exploring and verifying BIM-based energy simulation for building operations. <i>Engineering, Construction and Architectural Management</i> , <b>2020</b> , 27, 1679-1702  | 3.1  | 5   |
| 41 | A review of integrated applications of BIM and related technologies in whole building life cycle. <i>Engineering, Construction and Architectural Management</i> , <b>2020</b> , 27, 1647-1677                           | 3.1  | 15  |
| 40 | Constraints Hindering the Development of High-Rise Modular Buildings. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7159  | 2.6  | 26  |
| 39 | Value adding and non-value adding activities in turnaround maintenance process: classification, validation, and benefits. <i>Production Planning and Control</i> , <b>2020</b> , 31, 60-77                              | 4.3  | 16  |
| 38 | Understanding laborers' behavioral diversities in multinational construction projects using integrated simulation approach. <i>Engineering, Construction and Architectural Management</i> , <b>2019</b> , 26, 2120-2146 | 3.1  | 7   |
| 37 | A BIM-based approach for predicting corrosion under insulation. <i>Automation in Construction</i> , <b>2019</b> , 107, 102923   | 9.6  | 63  |
| 36 | Computer Vision Techniques in Construction, Operation and Maintenance Phases of Civil Assets: A Critical Review <b>2019</b> ,   |      | 2   |
| 35 | Construction Payment Automation through Smart Contract-based Blockchain Framework <b>2019</b> ,   |      | 16  |
| 34 | Structural Equation Modeling to Analyze the Critical Driving Factors and Paths for Off-site Construction in China. <i>KSCE Journal of Civil Engineering</i> , <b>2018</b> , 22, 2678-2690                               | 1.9  | 16  |
| 33 | Estimating the environmental costs and benefits of demolition waste using life cycle assessment and willingness-to-pay: A case study in Shenzhen. <i>Journal of Cleaner Production</i> , <b>2018</b> , 172, 14-26       | 10.3 | 74  |
| 32 | A Critical Review of the Use of Virtual Reality in Construction Engineering Education and Training. <i>International Journal of Environmental Research and Public Health</i> , <b>2018</b> , 15,                        | 4.6  | 194 |
| 31 | A Critical Review of the Integration of Geographic Information System and Building Information Modelling at the Data Level. <i>ISPRS International Journal of Geo-Information</i> , <b>2018</b> , 7, 66                 | 2.9  | 68  |
| 30 | Regional Variations of Credits Obtained by LEED 2009 Certified Green Buildings: A Country Level Analysis. <i>Sustainability</i> , <b>2018</b> , 10, 20  | 3.6  | 18  |
| 29 | A Coordinated Approach for Supply-Chain Tracking in the Liquefied Natural Gas Industry. <i>Sustainability</i> , <b>2018</b> , 10, 4822  | 3.6  | 5   |
| 28 | How affordable housing becomes more sustainable? A stakeholder study. <i>Journal of Cleaner Production</i> , <b>2017</b> , 162, 427-437   | 10.3 | 56  |
| 27 | A cross-sector review on the use of value stream mapping. <i>International Journal of Production Research</i> , <b>2017</b> , 55, 3906-3928   | 7.8  | 50  |
| 26 | Deconstruction waste management through 3d reconstruction and bim: a case study. <i>Visualization in Engineering</i> , <b>2017</b> , 5,   | 3    | 32  |
| 25 | The outlook of blockchain technology for construction engineering management. <i>Frontiers of Engineering Management</i> , <b>2017</b> , 4, 67  | 2.7  | 156 |

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| 24 | Cost analysis for sustainable off-site construction based on a multiple-case study in China. <i>Habitat International</i> , <b>2016</b> , 57, 215-222   | 4.6 | 106 |
| 23 | Developing and evaluating a framework of total constraint management for improving workflow in liquefied natural gas construction. <i>Construction Management and Economics</i> , <b>2016</b> , 34, 859-874   | 3   | 21  |
| 22 | Building information modeling-based integration of MEP layout designs and constructability. <i>Automation in Construction</i> , <b>2016</b> , 61, 134-146   | 9.6 | 46  |
| 21 | Development of an early-warning system for site work in hot and humid environments: A case study. <i>Automation in Construction</i> , <b>2016</b> , 62, 101-113   | 9.6 | 71  |
| 20 | BIM-Enabled Collaborative Scaffolding Scoping and Design. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 43-50  | 0.9 |     |
| 19 | Comparative Analysis on the Adoption and Use of BIM in Road Infrastructure Projects. <i>Journal of Management in Engineering - ASCE</i> , <b>2016</b> , 32, 05016021  | 5.3 | 72  |
| 18 | A linked data system framework for sharing construction defect information using ontologies and BIM environments. <i>Automation in Construction</i> , <b>2016</b> , 68, 102-113   | 9.6 | 53  |
| 17 | A decade review of the credits obtained by LEED v2.2 certified green building projects. <i>Building and Environment</i> , <b>2016</b> , 102, 167-178  | 6.5 | 62  |
| 16 | A critical review of the use of 3-D printing in the construction industry. <i>Automation in Construction</i> , <b>2016</b> , 68, 21-31  | 9.6 | 382 |
| 15 | Defining a conceptual framework for the integration of modelling and advanced imaging for improving the reliability and efficiency of bridge assessments. <i>Journal of Civil Structural Health Monitoring</i> , <b>2016</b> , 6, 703-714             | 2.9 | 22  |
| 14 | A Conceptual Framework of Quality-Assured Fabrication, Delivery and Installation Processes for Liquefied Natural Gas (LNG) Plant Construction. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2015</b> , 79, 433-448 | 2.9 | 9   |
| 13 | Integrating Augmented Reality into Building Information Modeling for Facility Management Case Studies <b>2015</b> , 279-304   |     | 2   |
| 12 | A BIM-based approach for automated tower crane layout planning. <i>Automation in Construction</i> , <b>2015</b> , 59, 168-178   | 9.6 | 70  |
| 11 | Integrating BIM and LiDAR for Real-Time Construction Quality Control. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2015</b> , 79, 417-432  | 2.9 | 61  |
| 10 | A Comparative Review of Building Information Modelling Implementation in Building and Infrastructure Industries. <i>Archives of Computational Methods in Engineering</i> , <b>2015</b> , 22, 291-308  | 7.8 | 68  |
| 9  | An Integrated Approach for Progress Tracking in Liquefied Natural Gas Construction. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 259-267  | 0.9 | 0   |
| 8  | A Project-Based Quantification of BIM Benefits. <i>International Journal of Advanced Robotic Systems</i> , <b>2014</b> , 11, 123  | 1.4 | 25  |
| 7  | Benefits of Building Information Modelling in the Project Lifecycle: Construction Projects in Asia. <i>International Journal of Advanced Robotic Systems</i> , <b>2014</b> , 11, 124  | 1.4 | 11  |

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| 6 | Integrating BIM and augmented reality for interactive architectural visualisation. <i>Construction Innovation</i> , <b>2014</b> , 14, 453-476                    | 4.1 | 42 |
| 5 | Integration of BIM and Lean Concepts to Improve Maintenance Efficiency: A Case Study <b>2014</b> ,   |     | 8  |
| 4 | Integrating Building Information Modelling and Firefly Algorithm to Optimize Tower Crane Layout <b>2014</b> ,  |     | 4  |
| 3 | Improving Quality and Performance of Facility Management Using Building Information Modelling. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 44-50    | 0.9 | 8  |
| 2 | The Application of BIM-Enabled Facility Management System in Complex Building. <i>International Journal of 3-D Information Modeling</i> , <b>2013</b> , 2, 16-33 |     | 7  |
| 1 | Engagement of Facilities Management in Design Stage through BIM: Framework and a Case Study. <i>Advances in Civil Engineering</i> , <b>2013</b> , 2013, 1-8      | 1.3 | 83 |