

Cheng Zhang

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.

38
papers

389
citations

9
h-index

19
g-index

47
ext. papers

489
ext. citations

4
avg, IF

4.06
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 38 | Investigating spatial impact on indoor personal thermal comfort. <i>Journal of Building Engineering</i> , 2022 , 45, 103536 | 5.2 | 3 |
| 37 | Near real-time timetabling for metro system energy optimization considering passenger flow and random delays. <i>Journal of Rail Transport Planning and Management</i> , 2022 , 21, 100292 | 2.1 | |
| 36 | Semantic segmentation of terrestrial laser scanning point clouds using locally enhanced image-based geometric representations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1 | 8.1 | 2 |
| 35 | Semantic Segmentation of Multispectral Images via Linear Compression of Bands: An Experiment Using RIT-18. <i>Remote Sensing</i> , 2022 , 14, 2673 | 5 | |
| 34 | The Ontology-Based Approach Supporting Holistic Energy-Tunnel Design considering Cost, Heat Flux, and System Feasibility. <i>Advances in Materials Science and Engineering</i> , 2021 , 2021, 1-13 | 1.5 | |
| 33 | Selecting Optimal Combination of Data Channels for Semantic Segmentation in City Information Modelling (CIM). <i>Remote Sensing</i> , 2021 , 13, 1367 | 5 | 7 |
| 32 | Multiagent SystemBased Near-Real-Time Trajectory and Microscopic Timetable Optimization for Rail Transit Network. <i>Journal of Transportation Engineering Part A: Systems</i> , 2021 , 147, 04020153 | 1.5 | 1 |
| 31 | Water pipe failure prediction using AutoML. <i>Facilities</i> , 2021 , 39, 36-49 | 2.2 | 3 |
| 30 | Real-time Railway Transit Management Based on Multi-Agent System (MAS). <i>Journal of Physics: Conference Series</i> , 2021 , 1828, 012045 | 0.3 | |
| 29 | Case Studies of Using BIM for Infrastructure in Utility Tunnel Projects in Jiangsu, China 2020 , | | 1 |
| 28 | Technical feasibility analysis on applying ultra-wide band technology in construction progress monitoring. <i>International Journal of Construction Management</i> , 2020 , 1-15 | 1.9 | 2 |
| 27 | Implementation of CIM-related technologies within transportation projects. <i>International Journal of Construction Management</i> , 2020 , 20, 510-519 | 1.9 | 2 |
| 26 | As-Built BIM Updating Based on Image Processing and Artificial Intelligence 2019 , | | 2 |
| 25 | Enhancing Sustainability of Rail Transit System by Applying Multi-Agent System 2019 , | | 1 |
| 24 | A BIM based tool for assessing embodied energy for buildings. <i>Energy and Buildings</i> , 2018 , 170, 1-14 | 7 | 62 |
| 23 | Investigating Occupancy-Driven Air-Conditioning Control Based on Thermal Comfort Level. <i>Journal of Architectural Engineering</i> , 2018 , 24, 04018003 | 1.5 | 7 |
| 22 | BIM-based investigation of total energy consumption in delivering building products. <i>Advanced Engineering Informatics</i> , 2018 , 38, 370-380 | 7.4 | 13 |

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| 21 | A satisfaction-range approach for achieving thermal comfort level in a shared office. <i>Building and Environment</i> , 2018 , 142, 312-326 | 6.5 | 14 |
| 20 | Structural design of concrete to EC2 and GB50010-2010: a comparison. <i>MATEC Web of Conferences</i> , 2018 , 175, 01039 | 0.3 | 2 |
| 19 | Comparative Study On The Ethical Perceptions Of Contractors And Designers In The China Construction Industry. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 291, 012024 | 0.4 | 2 |
| 18 | Lifecycle evaluation of building sustainability using BIM and RTLS 2014 , | | 4 |
| 17 | Automatic generation of Dynamic Virtual Fences as part of BIM-based prevention program for construction safety 2012 , | | 5 |
| 16 | Towards the smart construction site: Improving productivity and safety of construction projects using multi-agent systems, real-time simulation and automated machine control 2012 , | | 5 |
| 15 | Crane Pose Estimation Using UWB Real-Time Location System. <i>Journal of Computing in Civil Engineering</i> , 2012 , 26, 625-637 | 5 | 54 |
| 14 | Multiagent Approach for Real-Time Collision Avoidance and Path Replanning for Cranes. <i>Journal of Computing in Civil Engineering</i> , 2012 , 26, 782-794 | 5 | 36 |
| 13 | Improving lifting motion planning and re-planning of cranes with consideration for safety and efficiency. <i>Advanced Engineering Informatics</i> , 2012 , 26, 396-410 | 7.4 | 57 |
| 12 | 2011 , | | 12 |
| 11 | Path Re-Planning of Cranes Using Real-Time Location System 2009 , | | 4 |
| 10 | Resource Management of Bridge Deck Rehabilitation: Jacques Cartier Bridge Case Study. <i>Journal of Construction Engineering and Management - ASCE</i> , 2008 , 134, 311-319 | 4.2 | 9 |
| 9 | Cell-based representation and analysis of spatial resources in construction simulation. <i>Automation in Construction</i> , 2007 , 16, 436-448 | 9.6 | 28 |
| 8 | Agent-based simulation for collaborative cranes 2007 , | | 3 |
| 7 | Towards Supporting Construction Equipment Operation Using Collaborative Agent-Based Systems 2007 , | | 1 |
| 6 | Equipment workspace analysis in infrastructure projects. <i>Canadian Journal of Civil Engineering</i> , 2007 , 34, 1247-1256 | 1.3 | 8 |
| 5 | Collaborative Agent-Based System for Multiple Crane Operation 2007 , | | 3 |
| 4 | Sensitivity Analysis of Construction Simulation using Cell-Devs and Microcyclone 2006 , | | 1 |

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| 3 | Mobile Model-Based Bridge Lifecycle Management System. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2006 , 21, 530-547 | 8.4 | 27 |
| 2 | Representation and analysis of spatial resources in construction simulation | | 5 |
| 1 | Monitoring road base course construction progress by photogrammetry-based 3D reconstruction. <i>International Journal of Construction Management</i> ,1-15 | 1.9 | 1 |