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Foreword

The International Association for Automation and Robotics in Construction (IAARC) and the Local Organizing Committee are pleased to present the Proceedings of the 43rd International Symposium on Automation and Robotics in Construction (ISARC 2026). This year's symposium draws inspiration from the vibrant spirit, innovation, and cultural diversity of its host city, Singapore. ISARC 2026 was held from 22 to 26 of June, 2026, proudly hosted by National University of Singapore.

The 43rd edition of ISARC demonstrated unprecedented growth and remarkable global participation. A total of 451 papers were submitted, marking a significant 66% increase from the previous year. Following a rigorous, multi-step peer-review process, 345 papers were initially accepted (a 76% acceptance rate), with 331 papers ultimately finalized for presentation and inclusion in these proceedings. In total, the symposium brought together 1,319 authors and co-authors representing 222 universities, research labs, departments, and companies globally.

To maintain the highest standards of quality review amidst this historic surge in submissions, the Technical Committee expanded the Area Chair team to 49 members (up from around 30 in previous years). This expansion substantially enhanced regional diversity, purposefully involving experts from previously underrepresented regions such as South America and Africa. The review framework was robustly supported by 392 reviewers (a 52% increase from 2025) who meticulously delivered 978 comprehensive reviews (a 66% increase over the previous cycle).

Building upon the successful innovations of past symposia, the ISARC 2026 Technical Committee introduced systemic operational upgrades to streamline curation and enhance clarity:

- (i) Enhanced Reviewer Onboarding and Guidance: Editorial quality was aligned early through two dedicated onboarding kickoff sessions in December 2025, supported by streamlined guideline documents, step-by-step cue cards, and short instructional videos detailing Area Chair tasks,
- (ii) Streamlined Collaboration: Close, responsive coordination between the Technical Committee (TC), Local Organizing Committee (LOC), and Area Chairs (ACs) was maintained across WhatsApp, email, and ConfTool. Progress tracking and monitoring were further maintained via monthly status updates to the VP of Publications.
- (iii) Policy and Protocol Clarification: Broad clarity was established regarding the ISARC Publication Copyright. Additionally, participation protocols explicitly prioritized in-person presentations to optimize academic discourse, restricting virtual/Zoom presentations strictly to authors with legitimate, verified travel difficulties.
- (iv) Structured Selection Rubric: Track-level curation was elevated by requiring each AC to recommend and rank the top three papers in their track. The TC then screened these recommendations against a strict rubric evaluating long-term relevance (potential impact over 5 years), novelty of methods, and evaluation reproducibility.

The final ISARC 2026 program featured a diverse and rigorous schedule comprising 3 keynote presentations, 11 plenary session presentations (comprising 8 general plenaries and 3

specialized Theme Plenaries centered on the joint “lean-digital” theme), alongside 56 parallel sessions and 7 poster presentations. Notably, to preserve peer-review equity, posters were evaluated using the same rigorous rubric and process as full papers, resulting in a competitive selection process that filtered out approximately 50% of submitted posters.

We hope you find this year's proceedings exceptionally engaging, and the compiled research highly insightful and inspiring for the future of automation in construction. Enjoy your reading!

Qian Chen
Gaang Lee
Ci-Jyun Liang
Jiansong Zhang
Vineet R. Kamat

Table of Contents

Keynote talks

Control of a Robotic Telehandler for Sandwich Panel Assembly: High Fidelity Digital Twin and Fractional Predictive Controller ----- 1

Lucas Costa, João Alves, Nuno Ferreira, Micael Couceiro

Learning Humanoid Loco-Manipulation for Transporting Unwieldy Construction Objects----- 9

Zaolin Pan, Yantao Yu, Zhengbo Zou

A Plug-and-Play Semantic Execution Framework for Reusable Cross-Domain Automation in Digital Twins ----- 17

Chien-Pu Huang, Shang-Hsien Hsieh

General plenary talks

Experimental Validation of a Real-Time Digital Twin for Latency and Performance Analysis in Automated Wood-Framing ----- 25

Djamel Eddine Touil, Jordan Kolb, Ahmed Bouferguene, Yasser Mohamed, Mohamed Al-Hussein, Simaan AbouRizk

Towards RL Control for Flexible Robotic Applications in Construction: Grasping Static Objects ----- 33

Mohab Hassaan, Florian Noichl, André Borrmann

Hybrid Scene Graph Generation Framework for Structural Construction Activity Understanding Leveraging Human-Object Interaction and Vision-Language Models----- 41

Bryan D. Tan, Aureley Pradipta, Jacob J. Lin

MRAG-Based Generative AI Framework for Infrastructure Maintenance Decision Support - 49

Juyoung Jang, Seungsoo Lee, Mingeon Cho, Gichun Cha, Solmoi Park, Seunghee Park

An Automated Decision Support System for Pre-planning of Precast Bridge Installation using
Heuristic-Based Simulation and Invariant Signatures----- 57

Meta Soy, Zirui Hong, Fan Yang, Jiansong Zhang, Hubo Cai

A Multi-Embodied-Agent-Based Dual-Level VLM Framework for Construction Safety
Inspection ----- 65

Chak Fu Chan, Shuang Du, Yang Miang Goh

Feasibility-Aware Sequential Synthesis of Structural Support Assemblies: a Canonical
Formulation for Automated MEP Support Design----- 73

Lavinia Pedrollo, Torben Graeber, Martin Fischer

Exploring the relationship between robot dogs' behavior and workers' attentional distraction
----- 81

Heejae Ahn, Qipei Mei, Francis Baek, Yeseul Kim, Gaang Lee

Specialized theme plenary talks

A Hybrid Semantic Web and Data-Driven Framework for Spatial Constraint-Aware
Construction Planning----- 89

Zeyu Mao, Eyob Mengiste, Borja García de Soto, Vicente A. Gonzalez

Knowledge-Based Emergency Decision Support with Large Language Models and Structured
Graph----- 97

Fangzhou Lin, Zhengyi Chen, Mingkai Li, Boyu Wang, Xiao Zhang, Jack C.P. Cheng

Rethinking Automation in Construction: an exploratory study of Lean for Robotics in Mobile
Factories----- 105

Ming Shan Ng, Qian Chen, Benjamin Dillenburger, Rongbo Hu

Automated/robotic machines, devices, and end-effectors

Modeling for Feedforward Control of Vehicle Velocity in Autonomous Bulldozers ----- 113

Taro Abe, Genki Yamauchi, Takeshi Hashimoto

Assessment of Motion Planning Complexity for Rebar Placement Tasks Capturing Geometric, Spatial and Computational Aspects -----	121
Anantharaam R, Bijo Sebastian, Koshy Varghese	
Terrain-Adaptive Mobile 3D Printing with Hierarchical Control -----	129
Nors Shuangshan Li, J. Nathan Kutz	
LaserCoPilot: A Transferable Multimodal Co-pilot for Closed-Loop Installation and Assembly Guidance via Step-Indexed Laser Projection -----	137
Mengjun Wang, Ruiren Mei, Fan Xu, Shuai Li	
Imitation Learning–Based Physical AI for Small-Scale Construction Robotics Tasks -----	145
Abdullah Rasul, Daeho Kim	
Constraint-Based Planning and Control of a Differential-Drive Robot for Navigation in Cluttered Environments -----	153
Zemerart Asani, Mohayad Omer, Bitlan Gheorghe, Aaron Mahaudens, Ouassim Benhamouche, Bram Vanderborght, Emanuele Garone, Greet Van de Perre	
LLM-Driven Adaptive Recovery for Multi-Agent Systems in Dynamic Environments -----	161
Beril Yalcinkaya, Carlos A. P. Pizzino, Micael Couceiro, Salviano Soares, Antonio Valente	
Quantum Computing for Construction Robots: Challenges and Opportunities -----	169
Ci-Jyun Liang, Logan Norton-Lapsley, Zhaofeng Hu	
Measuring Cognitive Stability and Recovery in Construction Work: Insights from Field Eye-Tracking Data -----	177
Amira Eltahan, Gaang Lee, Farook Hamzeh	
Dual-Robot Anchor-Bracket Installation: Coordination Challenges and Requirements for Learning-Based Adaptation -----	185
Niki Kentroti, Kepa Iturralde	
Task Planning for Autonomous Drilling Excavators Under Terrain Constraints -----	193
Marcel Suiker, Jörg Husemann, Karsten Berns	

BIM-Integrated AR for MEP field inspection: A Multi-modal Approach -----	200
Zhidong Xu, Zhenan Feng, Nan Li, Mostafa Babaeian Jelodar, Brian H.W. Guo	
Remote operation of two construction machines from a location 900 km away using a single Starlink Mini and 10 HD video streaming-----	208
Yasuyuki Nakajima, Yasukazu Hontama, Daisuke Endo, Genki Yamauchi, Takeshi Hashimoto, Yasuyuki Jitsuta, Hitoshi Itoh, Masayuki Okamura	
Model-based adaptive controller for fast and restricted swing control in Tower Cranes -----	216
Mohammad Reza Kolani, Ali Mirhaghgoo, Stavros Noursias, André Borrmann	
An Automated Pipeline for Generating a Multi-Layered Spatial Map for Indoor Robot Navigation from BIM Data-----	224
Festus Basimtaal Ayembilla, Taeyoung Kim, Min-Koo Kim, JoonOh Seo, Jung In KIM	
Vision-Language Based Semantic Navigation in Construction -----	232
Saika Wong, Shaobin Zhou, Zihan Zhou, Mi Pan	
Design of an UWB Based Real Time Locating System for Semi-Autonomous Crane Operation -----	240
Marius Kühn, Martin Starke, Tom Volz, Frank Will	
SemantI-Nav: Human-Guided Imitation Learning for Safe Quadruped Navigation on Construction Sites-----	247
Liquan Xu, Dharmaraj Veeramani, Zhenhua Zhu	
Universal Robot–Tool Coupling for Construction: A Systematic Review of Cross-Platform Flange Interfaces and End-Effector Adaptation -----	255
Angel F. Castillo Aldaco, Jiansong Zhang, Luis C Félix-Herrán	
Real-time Quality Control for Offsite LGS Frames Manufacturing using Vision-Based Deep Learning -----	263
George Nader, Djamel Eddine Touil, Sai Praneeth Chandra Balla, Ahmed Bouferguene, Mohamed Al-Hussein, Simaan AbouRizk	

3-DoF Four-Cable-Driven Parallel Robot for Precision Alignment of Prefabricated Components	271
--	-----

Wenjie Tang, Xiangsheng Chen, Silin Li, Yi Tan

Assessing the wider impact of fully autonomous equipment for earthworks and land remediation projects.	279
---	-----

Emmanuel Manu, Thomas Mellor

Resilient Scheduling for Urban Infrastructure Maintenance and Inspection Fleets: A Potential-Guided MARL Approach.....	287
--	-----

Shuyang Zhang

An Automated Content Generation Framework in Extended Reality Based Safety Training in Construction	295
---	-----

Yulun Wu, Gaang Lee, Qipei Mei, Claudio Mourgues, Vicente A. Gonzalez

Autonomous Drone Navigation for Structural Inspection Using 3D Gaussian Splatting and Optimization-based Path Planning.....	303
---	-----

Hui Zuo, Thasanka Kandage, Hongyang Xu, Nima Shirzad-Ghaleroudkhani, Qipei Mei, José Fiestas, Luis A. Bedriñana

Design and Experimental Study of Wheel Step Mechanized Operation Platform for Complex Terrain Transmission Line Construction.....	310
---	-----

Feng Yan, Li Zhang, Mingjie Cui, Mingye Chen, Wei Tang, Xiaoyong Deng

A Framework Architecture for the Information Backbone for Robotic Construction	318
--	-----

Tamira Wrabel, Sebastian Esser, André Borrmann

A Strongly Typed Assembly Agent for Construction Integrating Rhino and Multimodal Large Language Models	326
---	-----

Song Du, Wei Tong, Yiwei Weng

Situated Perception: Spatial AI-Enabled Scene- and Object-level Localisation for Mobile Robotic Assembly	334
--	-----

Begüm Saral, Hanzhi Chen, Stefan Leutenegger, Kathrin Dörfler

Collaborative Block Stacking with Non-Prehensile Catching-----	342
Brendan Pousett, Johan Ubbink, Wilm Decre, Herman Bruyninckx	
Digital Evaluation of Morphological and Visual Surface Characteristics of 3D-Printed Concrete -----	350
Jens Otto, Florian Haertel	
Automating Tolerance-Critical Window Installation via Installer-in-the-Loop Interactive Reinforcement Learning -----	358
Zekai Jin, Huiguang Wang, Jiaduo Xing, Yi Shao	
A Mobile Robotic Concrete Additive Manufacturing System Toward Underwater Applications -----	366
Guanqin Guo, Hongjian Du	
Toward Crane–Robot Cooperative Manipulation in Curtain Wall Installation: A State-of-the-Art Analysis and Methodological Perspective-----	374
Vincenzo Orlando, Kepa Iturralde	
Synthetic Data Generation and Visual Servoing Simulation for Vision-Guided Robotic Rebar Tying-----	382
Chethiya Prasanga Wadumesthri, Aritra Pal	
DfX-based Design of a Multi-Robot Cell for Light Gauge Steel Panel Assembly and Manufacturing Operations-----	390
Misha Afaq, Arash Hosseini Gourabpasi, Farzad Jalaei, Rafiq Ahmad	
Towards Autonomous Bricklaying Using Boston Dynamics Spot-----	398
Karl-Johan Sørensen, Nico Vom Hofe, Frank Fitzek	
Cooperative Motor-Thruster Vertical Orientation Control for Suspended Modules in Modular Construction Assembly -----	406
Yuxuan Lan, Xiao Li, Ruiqi Jiang, Shichen Sun	
Autonomous Docking for Rebar Tying Robots: A Structure-Aware Perception Framework-----	414

Feng Zhang, Jingjing Guo, Xiaoyi Lyu, Lu Deng, Yuning Yan, Bo Jin, Jichao Hou

A VTA–ADM Framework for Real-Time Alignment Deviation Measurement in Precast Column Assembly Using Point Cloud-Image Fusion -----422

Lizhi Long, Lu Deng, Weiwei Chen, Honghu Chu

Super-Resolution-Enhanced Binocular Vision for Accurate Positioning of Prefabricated Wall Panels via Multi-Scale Ellipse Center Detection-----430

Lizhi Long, Honghu Chu, Lu Deng, Weiwei Chen

Digital Twin Framework for Humanoid Robotics in Construction: A Conceptual Approach for Scene and Task Simulation-----438

Xuling Ye, Liu Liu, Markus König

Autonomous Port Area Safety Inspection Using a Multimodal Sensor-Integrated UGV -----446

Jen-Hao Liu, Wei-Ping Hung, Chun-Ying Lee, Jacob J. Lin, Jen-Yu Han

Towards Construction 4.0 Spraying Technologies: Development of an Automated Modular Spraying System (AMSS) for Varying-Viscosity Coating Applications-----454

Rajesh Ranjan Nayak, Masoud Shakoorianfard, Christian Richter, Frank Will

VR Embodied Robot System: A Novel Approach to Investigating Crowd Crush-----462

Song Lu, Zichao Liang, Nan Li

Geometry-Structured Perception for Topology-Agnostic Robotic Rebar Tying-----470

Huiguang Wang, Zekai Jin, Yi Shao

A Multi-Modal 6DoF Pose Estimation Framework of Rebar Intersections Based on Fuzzy-Oriented FoundationPose -----478

Bolong Shu, Lu Deng, Jichao Hou, Jingjing Guo

Enhanced YOLOv10 for Small-Object Rebar Detection in UAV Images on Construction Sites -----486

Seunghyeon Wang, Sungkon Moon, Yuanzhe He, Rong-Lu Hong, Ke-Ting Pan, Ju-Hyung Kim

A BIM-Driven Robotic Framework for Autonomous 3D Projection of Construction Layouts	494
Zikang Wang, Huaquan Ying	
Human-Centered Design and Development of a UAV-UGV Hybrid Robotic System for Confined Space Inspection in Lean Construction 4.0	502
Zhong Wang, Qipei Mei, Gaang Lee, Thomas Bock, Vicente A. Gonzalez	
Phase-Adaptive Large Language Models for Multi-Robot Task Allocation in Dynamic Construction Environments	510
Shyam Prasad Reddy Kaitha, Hongrui Yu	
Enhancing Water-Ponding Detection in Housekeeping Using Generative AI-Inpainting-Based Synthetic Data	518
Quang Duy Dinh, Xuming Zhu, Jing Tian, Yang Miang Goh	
Unifying Design and Execution: A Hybrid Digital Twin for Robotic Fabrication in Construction	526
Zi Jie Tan, Hongjie Cai, Rongbo Hu, Sounggho Chae, Keiji Tanaka	
Distraction-Aware Drone Path Planning for Construction Safety	534
Wei Han, Liqun Xu, Mahfuza Maisha Mouri, Wei-Yin Loh, Fei Dai, Zhenhua Zhu	
A Curved Mortise-Tenon Timber Joint for Robotic Non-sequential Assembly with Reinforcement Learning	542
Lingyue Wu, Anja P. R. Lauer	
ConRobo-Nav: A Quadruped Robot Navigation System for Construction Sites via End-to-End Reinforcement Learning	550
Qi Yin, Meida Chen, Yangming Shi	
Intelligent Stone Masonry Robot for Sustainable Construction: Opportunities and Challenges	558
Qianqing Wang, Jingwen Wang, Bryan G. Pantoja-Rosero, Stefana Parascho, Katrin Beyer	
Evaluating Incremental Automation Strategies in Concrete 3D Printing	564

Abhishek Patel, Benny Raphael

Imitation Learning for Construction Robot Timber Assembly using Demonstrations from Leader-Follower Teleoperation -----572

Xinhe Yang, Lei Huang, Zhengbo Zou

AI-Driven Autonomous Construction Machinery for Enhanced Productivity and Safety -----580

Milan Jovin, Igor Pesko, Vladimir Mucenski

A Prototype of Construction-CAM for Automated Earthwork with Multiple Construction Machines -----588

Rikuto Takahashi, Yuichiro Kasahara, Shou Kurebayashi, Genki Yamauchi, Takeshi Hashimoto, Ryo Kurazume, Hiromitsu Fujii, Keiji Nagatani

Force-feedback Cable-driven Leveling System for Modular Construction Installation-----594

Shichen Sun, Xiao Li, Yuxuan Lan, Ruiqi Jiang, Qianru Du

BIM-Integrated Generation of Safety-Aware, Georeferenced Occupancy Grid Maps for Autonomous Masonry Robots-----602

Masoud Shakoorianfard, Jan Deubner, Christian Richter, Frank Will

Training and Simulation of Quadrupedal Robot in Adaptive Stair Climbing and Descending for Indoor Firefighting: An End-to-End Reinforcement Learning Approach -----610

Baixiao Huang, Baiyu Huang, Yu Hou

Adaptive Human–Robot Collaboration for Masonry Construction Under Material and Assembly Uncertainty -----618

Jutang Gao, Arash Adel

Dynamic Collision-Avoiding Trajectory Planning for Tower Crane Operations via Configuration Space Optimization -----626

Beiyu You, Boyu Ma, Keyu Chen

Reinforcement Learning-Driven Intelligent Path Planning for Dual Tower Cranes in Modular Construction Sites-----634

Shanshan Jiang, Yifan Wang, Bin Yang, Zhaozheng Shen

Quality Inspection of Additive Construction: A Parametric Approach for Automated Scanning of 3D Printed Walls -----642

Jorge Rojas, Sogand Hasanzadeh

Vision-Language Navigation for Indoor Construction Site Inspection using Quadruped Robots -----650

Qihua Chen, Xianfei Yin, Zeying Gong, Zihua Zhu

6-DoF Robotic 3D Printing of Martian Habitat Components: Scaled Fabrication Model-Based Experimental Validation-----658

Emrullah Koca, Ahmet Türer

Exploring Optimal Geometric Shapes for Martian Habitat Design: A Comparative Analysis and Structural Evaluation -----666

Ahmet Türer, Emrullah Koca

A Time-Based Comparison of Manual and Robotic Manufacturing Processes for Nail-Laminated Timber Panels -----674

Paolo Pancho-Ramirez, Mauricio Arredondo-Soto, Rafiq Ahmad

Development of Multi-robot 3D Thermal Modeling System for Built Environments-----682

Jula Marzouk, Kadin Sales, Fanru Gao, Ci-Jyun Liang, Jacob J. Lin

A Shared Autonomy Framework for Construction Robot Teleoperation Using Mixed Reality -----690

Yuezhen Gao, Ali Golabchi, Qipei Mei

Construction management techniques

A Multimodal Visual Retrieval Framework for Construction Site Management via High-Dimensional Vector Embeddings-----698

Qiao Zheng, Zhiqiang Wei, Minjin Fang, Rui Jin, Xia Lei

LLM-based Exploration of BIM Clash Information using Semantic Knowledge Graph -----706

Donguk Shin, Wonbok Lee, Hyunwoo Lee, Yoonjae Sung, Woosung Jeong, Yurim Jeong, Bonsang Koo

Knowledge Graph-Driven Reasoning for Automated Crane Lift Monitoring-----714

Junlin Wang, Songbo Hu, Yihai Fang, Hongling Guo

Embodied carbon and cost variation of steel modules by using low-carbon steel considering carbon price's influence-----722

Yang Zhang, Wei Pan, Vorada Kosajan

Optimization of Temporary Modular Unit Logistics with Circular Flow-----730

Ipek Kivanc, Nico Dellaert, Claudia Fecarotti

Cradle-to-Grave Sustainability Analysis: Comparing Prefabricated High-Rise and Cast-in-Place Building Construction -----738

Muhammad Huzaifa Raza, Sichi Han, Svetlana Besklubova, Shuaming Su, Ray Y. Zhong

BIM-Enabled On-Site Defect Detection for Tower-Crane Traction Wire Ropes via Transfer-Learned Lightweight YOLOv8 with GSConv-SE-SimAM -----746

Yongchao Xie, WenHao Li, Chenrun Dong, Yichuan Deng

Integrating AI Image Recognition and LINE BOT To Develop Dynamic Construction Safety Information Management-----754

Cheng Yu-Jen, Lu Pin-Tsang, Chen Shih-Sin, Chang Chen-Han, Weng Shao-Wei, Wang Wei-Chih

Understanding Cost Estimate Evolution: Phase-to-Phase Dynamics and Project Size Effects in Transportation Infrastructure -----762

Yejee Paik, Baaabak Ashuri

Artificial Intelligence for Design for Safety in Construction: A Critical Review and Research Agenda-----770

Jaewook Jeong, Louis Kumi, Jiwon Hwang

LLM-Based BIM-DfS Framework for Phase-Specific Safety Mitigation Recommendations during the Design Stage-----778

Jaewook Jeong, Minsang Gu, Louis Kumi

Impact of Robot Autonomy on Workers' Stress: Evidence from Virtual Reality and Physiological Measures -----786

Yonger Zuo, Brian Guo, Yang Miang Goh, Bowen Ma

Crane Accident Investigation via LLM Reasoning: A System Thinking-guided Chain-of-Thought Approach -----793

Junyu Chen, Hung-lin Chi

The Economic Paradox of Design and the integration of Artificial Intelligence (AI) within Building Information Modelling (BIM)-----802

Guilherme Quinilato Baldessin, Silvio Melhado

Analysing Construction Robotics Safety Standards for Safety Modelling and Simulation ---810

Yifan XU, Clara Cheung, Ming Shan Ng, Akilu Yunusa Kaltungo, Tsukasa Ishizawa, Kota Fujimoto

Understanding the Causal Relationship of Lead Time on Material Cost Patterns with Machine Learning Models -----818

Daniela Correa-Caselles, Gabriel Castelblanco

From Sensing to Scheduling: Deviation-Based Framework for Sensor-Aware Progress Monitoring and Schedule Control -----824

Shabtai Isaac, Gunnar Lucko

Assessing Material and Labor Cost Indices Impacts on Construction Firms' Financial Performance: A Machine Learning Comparison with Feature Engineering -----832

Jin-Bin Im, Seong-Jun Ye, Enlian Zhang, Kyung-Tae Lee, Kang-Moo Lee, Ju-Hyung Kim

Applying Quality Diversity Algorithms to Construction Site Layout Planning-----840

Ping Chai, Lei Hou, Guomin Zhang

Design for Repair and Reuse, and Digital Fabrication of Traditional Japanese Timber Joinery: a Daimochi Tsugi case study-----848

Ming Shan Ng, Akaneh Wang, Esmaeil Ghorbani, Jürgen Hackl

Collaborative Safety Intelligence in Construction Sites through Agentic RAG Systems -----856
Alessandra Corneli, Tommaso Pieroni, Alessandro Carbonari, Berardo Naticchia

A BIM-Based Automated System for Estimating Structural Temporary Support Cost and Schedule-----864

Tantri N. Handayani, Angga T. Yudhistira, Rezki Pertiwi, Risma Amelia, Veerasak Likhitrungsilp

Survey-Based Data-Driven Dashboard for Planning Off-Site Construction Projects: Wall Framing Case Study-----872

Sena Assaf, Tadesse Zelele, Xue Chen, Mohamed Assaf, Sangjun Ahn, Joon Ha Hwang, Ahmed Bouferguene, Mohamed Al-Hussein

An Incentive-Compatible Blockchain Consensus Mechanism for Construction Carbon Markets Based on Verified Carbon Credit Sales-----880

Yanjiang Lu, Yue Teng, Geoffrey Qiping Shen

GraphRAG for Multi-Modal Construction and Demolition Waste Data Integration Toward Traceable Disposal Recommendations-----888

Yu Gao, Tak Wing Yiu, Xuesong Shen, Vivian W.Y. Tam

H - Human factors & human-system collaboration

AI-Enabled Climate-Health Nexus Framework for Decision-Support in Sustainable Urban Green Infrastructure -----896

Phoebe Xu, Jinying Xu, Jeff Clark, Ravi Shankar

Towards Safer Human-Robot Collaboration in Construction: A Scoping Review of Ergonomic Factors and MSD Risks-----901

Yuan Liu, Carol Hon, Glenda Caldwell, Müge Belek Fialho Teixeira, Jasper Vermeulen, Timothy Rose

REBA-VLM: Enhanced risk mitigation in construction via Pose guided visual instruction tuning -----907

Mohammad Daniyalur Rahman, Likhith Kumara, Sivakumar Santhanam, Nikhil Bugalia

Unsupervised Clustering of Team Situation Awareness Via Cross Recurrence Quantification Analysis of Psychophysiological Metrics -----	915
Ching-Yu Cheng, Liuchuan Yu, Lap-Fai Yu, Behzad Esmaeili	
Feasibility of a Personalized Stress Appraisal Monitoring Technique in Construction Using Wearable PPG and Physiology-Informed Hierarchical Machine Learning-----	923
Francis Xavier Duorinaah, Ghanim Saqib, Vicente Gonzalez, Gaang Lee	
Capturing Human-Centric Adaptation in Human-Robot Collaboration for Prefabricated Construction: Empirical Modeling of Mental and Physical Effort Dynamics -----	931
Yifan Wang, Bo Xiao, Shane Mueller, Wen Yi	
Effects of Drone Distraction on Roofing Sites: A Quantitative Assessment of Roofers' Balance During Critical Stooping Task -----	939
Mahfuza Maisha Mouri, Wei Han, Liqun Xu, Alireza Ghasemi, Wei-Yin Loh, Zhenhua Zhu, Fei Dai	
Investigation of Spraying process: a Simulation-based Comparison of Human Approach and Robotic Application -----	946
Anne-Sophie Saffert, Gabriel Kosara, Thomas Linner	
An sEMG-Enhanced Fuzzy REBA for Forearm Risk Assessment-----	954
Jiale Zhu, Yuzhang Li, Xinming Li	
Reducing Schema Dependency in Natural Language Interfaces for Infrastructure Digital Twins through Automated Reader and Parser Generation-----	962
Peihang Luo, Linjun Lu, Ya Wen, Erika Parn, Lavindra de Silva, Borja Garcia de Soto, Ioannis Brilakis	
Toward Understanding Fire Hazard Recognition in Construction: An immersive VR and Eye-Tracking Pilot Study -----	970
Kexin Liu, Gaang Lee, Max Kinateter, Vicente A. Gonzalez	
Construction Task Scheduling for Human-Robot Collaboration Considering Human Behavior Uncertainty -----	978
Yilin Wang, Chao Mao, Jue Li, Xingyu TAO	

ExecHOI: Planning-grade 3D Simulation of Long-Horizon Human Object Interaction Tasks for Proactive Musculoskeletal Disorder Risk Forecast -----986

Kangrui Ren, Gaang Lee

Democratizing Construction Robotics: A Neuro-Symbolic Framework for Semantic Spatial Adaptation and Intuitive Control -----994

Hui-yu Lin, Liang-Ting Tsai, Cheng-Hsuan Yang, Tzong-Hann Wu, Shang-Hsien Hsieh

Co-Adaptation in Human-Robot Collaborative Construction: A Case Study on Timber Joint Assembly ----- 1002

Michihiro Abe, Arastoo Khajehee, Yasushi Ikeda

Material-Aware Contextual Intention Inference for Adaptive Human-Robot Collaborative Timber Assembly ----- 1009

Yiqing Wang, Zhengyi Chen, Xingyu TAO

Few-shot SOP-Grounded Vision-Language-Action Policy for Proactive Human—Robot Collaborative Construction Assembly via Structured Semantic Prompts ----- 1017

Jiabao Liao, Qiao Zheng, Xingyu TAO

AI-assisted Voice Control in Human—Robot Collaboration during Scaffold Assembly Tasks: A Controlled Evaluation Using Questionnaires and Motion-Tracking Indicators ----- 1025

Tanghan Jiang, Erol Cemiloglu, Yihai Fang

Reconceptualising Human-Robot Collaboration in AEC: A PRISMA Scoping Review ----- 1033

Jasper Vermeulen, Timothy Rose, Glenda Caldwell, Muge Teixeira, Yuan Liu, Carol Hon

A Performance Benchmarking Framework for Remote-Controlled Tower Cranes Toward Standardized Specifications ----- 1041

Yifan Wu, Peter Kok-Yiu Wong, Jack C.P. Cheng, Kenji Chi-Kin Wong, Colin Chi-Hang Fong, Esther Tung-Yan Yim

A Comparative Usability Analysis of Instant Messaging and Online Forms for Crowdsourcing Disaster Image Collection ----- 1049

Shih Hsien Yang, Zih-Jing Yang, Hao-Yung Chan, Meng-Han Tsai

A Generative AI-based Platform for Construction Education: Development and User Study
----- 1057

Xiaoyu Hou, Anusha Kannan, Bo Xiao, Shane Mueller

Enhancing Human—Robot Collaboration Through Augmented Reality Guidance: A Phase-
Based Evaluation----- 1065

Yizhe Wang, Songbo Hu, Yihai Fang, Yu Bai

A Modular High-Fidelity Simulation Framework for Human-UAV Interaction Research in Built
Environments----- 1073

Guohao Wang, Abdul-Majeed Mahamadu, Vijay M. Pawar, Honghu Chu, Diran Yu

From Site Plans to a Tangible Teaching Artefact: A Physical Construction Site Model for
Construction Education ----- 1081

Zoubeir Lafhaj, Soufiane Zoumehri, Rida Zerrari

Ergonomic Risk Assessment Technology for Scaffolding Workers Using Real-Time Monocular
3D Pose Estimation----- 1089

Seungsoo Lee, Kyoungmin Kim, Juyoung Jang, Minsoo Park, Gyoungsoon Chun, Seunghee
Park

Understanding Pedestrian Safety Compliance in Smart Traffic Systems: A Multimodal Data
Approach ----- 1097

Yuting Zhang, Jiayu Chen, Tao Cui, Yichen Liu, Mingxuan Liang

Human Preference-Aligned Construction Scheduling using Reinforcement Learning and Direct
Preference Optimization----- 1105

Ajay Kumar Agrawal, Yang Zou, Tao Yang

Bridging Materials Science and Human Factors for Construction Worker Health and Safety: An
Integrated Framework----- 1113

Usama Khan, Rezaul Karim, Xingzhou Guo

Wearable Edge-AI Assistant for Multilingual Safety Communication on Construction Sites: A
Heat Stress Prevention Application----- 1120

Yuting Chen, Gongfan Chen, Lingguang Song, Don Chen

Information modeling techniques

Opportunities and Challenges of the Adoption of Artificial Intelligence in Steel Fabrication for Construction ----- 1128

Roxana Poushang Baghery, Kereshmeh Afsari

Hierarchical Embodied Carbon Calculation Workflow and Verification for the Entire Building and Elements ----- 1136

Ming-Yu Huang, I-Chen Wu

Digital Assessment of Initial Geometric Imperfections in Full-Scale 3D Concrete Printed Walls Using Terrestrial Laser Scanning and Eurocode 2 Evaluation----- 1144

Ng Jun Liang Ben, Du Hongjian, J Y Richard Liew, Meiling Dai, Dongqi Jiang, Ivan Seng Wei Liang.

Automating BIM Change Certification with Blockchain: A Case Study in Residential Building Design ----- 1150

Reinaldo Valdebenito, Peter Waher, Eric Forcael, Eder Martínez, Francisco Orozco, Carlos Mulchi, Caroll Francesconi

Generating Schedule Knowledge Graphs for Structural Activities by Resource Linking Using Retrieval-Augmented Generation ----- 1158

Raynard Vincent Elsanio, Jacob J. Lin

Legged locomotion Control for Low-cost Quadruped Robots Using reinforcement learning ----- 1166

Rajesh Tiwari, Shailesh Khapre, Avantika Singh

Large-Scale Point Clouds Registration Using Equivariant Graph Neural Network with Building Features ----- 1174

Jinyi Shi, Yujie Lu

A Multimodal Late-Fusion Framework for Reliable Crane Hand Gesture Recognition in Low-Light Environments ----- 1182

Zhihao Wei, Moein Maleki, Ghulam Muhammad Ali, Xinming Li

Knowledge-driven Performance-based Design for Residential Buildings Fire Safety: A Case Study of Fire Scenario Generation----- 1190

Xianghui Zeng, Liu Jiang, Yu Chen, Chao Su

Skeleton-enhanced vision-language framework for intent recognition of construction workers
----- 1198

Wenting Mo, Fanfan Meng, Mi Pan, Mirosław J. Skibniewski

A Tri-Stage Approach for Predicting Construction and Demolition Waste Disposal: Hong Kong
Case ----- 1206

Shuaiming Su, Xinjie Feng, Svetlana Besklubova, Muhammad Huzaifa Raza, Ray Y. Zhong

Quantifying Cognitive Development in Tower Crane Operators through VR Training: A
Longitudinal Study Using the SEEV Model ----- 1214

Furui Man, Junyu Chen, Hung-lin Chi

A Hybrid Physics-Informed and Deep Adversarial Transfer Learning Network for Cross-
Domain Fault Diagnosis of High-Speed Train Bearings ----- 1222

Hule Li, Xiaohui Zhang, Naichen Shi, Zhengyao Wang, Yanrui Liu

An Algorithmic Framework for the Automated Synchronization of Multi-Domain BIM
Representations via Canonical Clustering ----- 1230

Justin S. Lee, Ghang Lee

Investigating Artificial Intelligence Commercial Scheduling Software for Construction Projects
----- 1238

Tarek Salama, Atefeh Mohammadpour, Mohammed Alsharqawi

A proof-of-concept framework for LLM-augmented semantic web technologies for knowledge
sharing and reuse in construction ----- 1246

Zhen Zhang, Yang Zou, Johannes Dimyadi, Brian Guo

Training-Free Element Classification Aligned with BIM-driven Automated Construction
Schedule Generation ----- 1254

Steven Heung, Christoph Sydora, Eleni Stroulia

Mitigating Overheating and Improving Ventilation in Dense Taiwanese Townhouses Using a
Termite-Mound-Inspired Hybrid Stack System ----- 1262

Ngoc-Mai Nguyen, Happy Mareta, Fadhilah Rahma Miftahul Jannah

As-is Modelling of Deformed Linear Objects from 3D Point Clouds using Inverse Kinematics -
based Iterative Closest Point ----- 1270

Jumana Dayeh, Frédéric Bosché

An Ontology-Guided Attribute-Based Model for Automated Construction Hazard Description
----- 1278

Wen-der Yu, Wen-ta Hsiao, Tao-ming Cheng

Scan-to-BIM: Edge-driven Pipeline to Facade Reconstruction ----- 1285

Maxime Queruel, Stefan Bornhofen, Pierre Martin, Aymeric Histace

Zero-Shot Instance Segmentation of Shield Tunnel Linings via Adaptive SAM and Generative
Inpainting ----- 1293

Chengxin Shi, Jiepeng Liu, Dongsheng Li, Pengkun Liu, Yongjing Wang, Shan Huang

Development of Feature Extraction Using High-Resolution RGB Images and Homography
Transformation to Inspect RC Walls Rebar Works ----- 1300

Young-Gun Baek, Rong-Lu Hong, Il-Gyo Choi, Kyung-Ho Lee, Ju-Hyung Kim

FIM-Based Task and Motion Planning for Robotic Bricklaying ----- 1308

Martin Slepicka, Canberk Yalçıklı, Mohammad Reza Kolani, Stavros Nousias, André
Borrmann

Towards Automated Scaffold Inspection Using 3D Gaussian Splatting and Vision-Language
Models ----- 1316

Boyu Wang, Borja García de Soto

Four-Dimensional Fire Safety Knowledge-Enhanced Large Language Model for BIM
Compliance Checking ----- 1324

Yicheng Zhao, Zhoupeng Wang, Xingbo Gong, Xingyu Tao

Color-Enhanced Local Feature Fusion for FPFH-Based Point Cloud Registration ----- 1332

ZeZhi Ding, Jiaqi Li, Xincong Yang, Yangfan Wu, Ruinan Tan

Domain-specific Large Language Model Pretraining for Construction Specification Review
----- 1340

Shuyi Wang, Jinwoo Kim

Multi-Dimension Simulation Framework for Operating Room Construction Using Omniverse
----- 1348

Chia Ying Lin, Lung-Hsiang Su, I-Chen Wu

A Computational Pipeline for Design and Fabrication of Building Slab Units with 3D Printing
and Robotic Production Cells ----- 1356

Yuchen Tang, Emad Shakour, Oded Amir, Rafael Sacks

A Hybrid Retrieval-Augmented Generation Driven Multi-Agent System for Quality Control in
Off-Site Construction ----- 1364

Fanfan Meng, Mi Pan, Wei Pan

Multi-granularity infrastructure-BIM object classification and decomposition for highway project
delivery----- 1372

Mengtian Yin, Junxiang Zhu, Xingbo Gong, Fengqiao Zhang, Yixiong Jing, Ioannis Brilakis

Probabilistic Flood Damage Cost Estimation for Residential Buildings Using Bayesian
Information Updating ----- 1380

Yitong Li, Jie Gong

A hybrid RAG approach for generating ontology-based information containers from building
permit application submissions using text-based LLMs ----- 1387

Philipp Hagedorn, Jayesh Adlinge, Judith Fauth, André Borrmann

Research on the Structure and Transmission of Enhanced IFC for LLM-Driven Intelligent
Design----- 1395

Yuwen Chen, Ziyang Jiang, Zhou Kaifeng, Zhao Xu

Exploiting Point Cloud Semantic Segmentation for Automatic Geometric Measurement in
Modular Construction----- 1403

Hongxu Chen, Tingtian Li, Jie Hong, Xiao Li

DS4Net: Pseudo-Depth Injection and Spectral-Spatial State Space Modeling for Label-Efficient Crack Segmentation ----- 1411

Xiaohu Chen, Ruiqiang Xiao, Hongyuan Liao, Wei Li, Mingzhu Wang

RAG-LLM-Enhanced BIM for Automated Fall Hazard Detection and Prevention----- 1419

Mudasir Hussain, Tan Tan, Zhuoran Zhang, Yalan Mei

A Decision-Oriented Synthesis of AI-Based Assembly Sequence Planning for Construction Automation ----- 1427

Anas Itani, Mohamed Al-Hussein, Simaan AbouRizk

Cognitive Scan-to-BIM: LLM-Driven Hyperparameter Optimization for Robust MEP Primitive Fitting in Complex Construction Environments ----- 1435

Muhammad Talha, Rafiq Ahmad, Yitong Li, Omair Shafiq, Qipei Mei

A Traceable Clause-Level Retrieval and Evidence-Based Question Answering System for Tunnel Specifications----- 1443

Yafei Sun, Xuesong Shen, Sisi Zlatanova, Khalegh Barati, Milad Mousavi, James Linke

Automated BIM-Ready 3D Reconstruction from Muon Flux Tomography Data: An IFC-Based Integration Pipeline for Bridge Inspection ----- 1451

Soheila Kookalani, Ioannis Brilakis, Sander Sein, Tengiz Pataraia, Ya Wen, Mudan Wang, Xiaofang Wen

Real-time Animal Intervention Detection in Roadways Using Quantum Enhanced YOLOv11 framework for CCTV Images and Inclement Visibility Conditions----- 1459

Prasanna Venkatesan Ramani, Sugeerthi MS, Naresh Kumar V

VLM-Based Component-Level Task Planning for Adaptive Bricklaying: Integrating 3D Models and 2D Shop Drawings ----- 1467

Nayun Kim, Florian Noichl, André Borrmann

Deep Learning-Based Multi-Task Recognition of Objects and Text in Engineering Drawings ----- 1475

Jyun-Yu You, Ying-Hua Huang

Neural Implicit Representations for IFC Objects: A Coordinate-Preserving Approach for Volumetric Spatial Reasoning----- 1482

Sang Du, Lei Hou, Guomin Kevin Zhang, Haosen Chen

Flood Impact Assessment on Highway Networks Considering Socioeconomic Vulnerability: Evidence from Harris County----- 1490

Beixuan Dong, Lingzi Wu, Xinming Li

BIM-Align: An Automatic Framework for BIM to As-Built Alignment with Multi-View Imagery and 3D Gaussian Splatting ----- 1498

Guangan Chen, Michiel Vlamincx, Gianni Allebosch, Wilfried Philips, Hiep Luong

Real-Time Risk Assessment for Underground Space Using IoT, Online Learning, and Bayesian Networks ----- 1506

Milad Mousavi, Xuesong Shen, Zhigang Zhang, Khalegh Barati, Binghao Li

Interpretable Real-Time Construction Safety Monitoring via Video-Text Retrieval ----- 1514

Sejun Park, Jaehoo Kim, Dongmin Lee

NUS3D: A BIM-Synthetic, Mobile-Scan and TLS Point Cloud Dataset for Robotic 3D Scene Understanding in Built Environment ----- 1522

Vincent Gan, Mingkai Li, Jingxuan Li, Chao Yin, Boyu Wang

Optimizing Time Buffer Allocation in Space-Constrained Modular Construction Factories 1530

Nima Moghimi, Sahar Shamaee, Leonard Ilerih, Qipei Mei, Vicente A. Gonzalez, Farook Hamzeh

Automatic Semantic Parsing of Structural Drawings and Rebar Schedules Based on a Hybrid Deep Learning Framework----- 1538

Rong-Lu Hong, Jin-Bin Im, Lijing Xu, Wooshin Shim, Seunghyeon Wang, Ju-Hyung Kim

Towards Predicting Blockages in Urban Stormwater Drainage Systems with Machine Learning ----- 1546

Ashen Krishantha, Palaneeswaran Ekambaram, Morshed Alam, Iqbal Hossain, Mengqi Huang, Abdul Aziz

Automating Electrical Outlet and Circuit Assignment in BIM through AI-Assisted CAD–BIM Interoperability ----- 1554

Luis Angel Cristancho, Kevin Daniel Torres Garcia, Omar Sanchez, Rodrigo F. Herrera, Karen Castañeda

Industrial3D: A Large-Scale Industrial MEP Point Cloud Dataset and Benchmark for Complex Industrial Scene Understanding ----- 1563

Chao Yin, Bing Sun, Difeng Hu, Boyu Wang, Mingkai Li, Jack C.P. Cheng

Attention-Based Deep Reinforcement Learning for Task Sequence Optimization of Robotic Connection Operations ----- 1570

Yizhe Wang, Cong Zhang, Yihai Fang

XR-assisted semantic scene understanding of building interiors via AI segmentation and photogrammetric reconstruction ----- 1578

Bryan G. Pantoja-Rosero

Artificial Intelligence and Computer Vision for Construction Progress Monitoring: A Bibliometric and Thematic Review (2005–2026) ----- 1586

Kevin Daniel Torres Garcia, Luis Angel Cristancho, Omar Sanchez, Rodrigo F. Herrera, Karen Milady Castañeda Parra

Multi-fidelity surrogate-integrated modelling framework: Application to tall energy structures ----- 1594

Wuhua Xie, Ke Ke, Guohao Wang, Honghu Chu

Automated Scan-to-BIM Method for City-Scale Building Roof Reconstruction Using UAV Photogrammetry and Geospatial Building Footprints ----- 1602

Boan Tao, Frédéric Bosché, Jiajun Li

Feasibility Assessment of a BIM-Driven Robotic Rebar Cage Assembly Framework for Ballastless Railway Track Slab Construction----- 1610

Ashritha Reddy Yeddula, Samson Mathew

Smartphone-Only High Accuracy Indoor Self-Localization and Navigation system for Non-GP Environments with Patrol Free Floor Plan Based Map Creation ----- 1618

Bikash Lamsal, Masato Higo, Ryota Toki, Masato Oka, Bimal Kumar KC, Matteo Sardellitti, Naofumi Matsumoto

A Time- and Memory-Efficient Method for Axis Alignment of Very Large Point Clouds using Orthogonality in Buildings ----- 1626

Longyong Wu, Sou-Han Chen, Meng Sun, Fan Xue

Energy-Intelligent Forecasting for Taiwanese Office Buildings: Developing a BIM-Derived Dataset and Integrating Advanced AI Models----- 1634

Ngoc-Mai Nguyen, Minh-Tu Cao, Wei-Chih Wang

Accurate Geometric Reconstruction and High-Fidelity Photorealistic Rendering of Reflective Glass Facades using Gaussian Splatting with a Novel Reflection MLP----- 1642

Zhenyu Liang, Xiao Zhang, Boyu Wang, Ang Li, Zhaolun Liang, Jeff Chak Fu Chan, Mingzhu Wang, Jack Chin Pang Cheng

An Automated Framework for Railway Sleeper Detection and Spacing Assessment using UAV Imagery ----- 1650

Bhanu Pratap Singh, Sahil Grag

Reflective twins for deep excavation using physics-informed machine learning ----- 1658

Nandeesh Babanagar, Brian Sheil

Inferring Spatial Interface Dependencies from Co-change Records in Civil Infrastructure Design Models ----- 1666

Ryoko Arashida, Masahide Horita

Optimizing High-Mix Low-Volume Prefabrication Scheduling: A Hybrid Simulation-Based Optimization Framework for Dual-Resource Constrained Systems ----- 1674

Nima Moghimi, Sahar Shamaee, Qiwei Mei, Vicente A. Gonzalez, Farook Hamzeh

Scene Coordinate Regression-Based Visual Localization for Advanced Multi-Crane Safety Monitoring in Construction Sites----- 1682

Tran Dang Khoa Vo, Tan-Dat Pham, Sujin Jin, Pa Pa Win Aung, Solmoi Park, Seunghee Park

MiCRoadDiff: AI-driven generative design of on-site haul road for modular constructions using fine-tuned diffusion models ----- 1690

Fangzheng Li, Rongyan Li, Hung-Lin Chi

A BIM-based Ontology Method for Knowledge Representation in Light Gauge Steel Panel Assembly ----- 1698

Mariana Marines Alvarado, Arash Hosseini Gourabpasi, Farzad Jalaei, Rafiq Ahmad

Less is More: Reinforcement Learning-powered Training Data Quality Evaluation and Sampling for Enhancing Computer Vision in Construction ----- 1706

Ziqing Wang, Jinwoo Kim

Automated tape_target centering based on template matching for construction measurement tasks using robotic total stations----- 1714

Joshua Harrington, Nolan W Hayes, Diana Hun

An integrated workflow based on UAS, GIS, and BIM for building envelope maintenance management----- 1722

Caio Lima, Vanessa Pacheco, Alisson Silva, Rafael Sena, Danton Almeida, Marcos Lorenzo, Dayana Costa

Bridge concrete spalling recognition based on generative AI synthetic weather and YOLOv11 ----- 1730

Rong-Lu Hong, KiWon Lee, SeoYoung Park, Seunghyeon Wang, Ju-Hyung Kim

Automated Cycle Time Analysis in Prefabricated Construction Using Hybrid Vision-Language Models and Motion Heuristics----- 1738

Mohamed Sabek, Baseel Andres Ammar, Haitao Yu, Farook Hamzeh, Vicente Gonzalez

Zero-Shot Vision-Language Models for Automated Construction Activity Recognition: From Ensemble Methods to Neuro-Symbolic Reasoning----- 1746

Amit Kumar Jha, Aritra Pal, Danny Murguia

Knowledge-Enhanced Point Cloud Classification Model for Bridge Components ----- 1754

Tao Yang, Yang Zou, Enrique del Rey Castillo, Weiwei Chen, Ajay Kumar Agrawal

FloorPlan2Nav: Semantic-Topological Navigation from Floor Plan Images as Prior Maps 1762

Yan GAO, Qian Zheng, Fuji Hu, Yiwei Weng

A Distributed Simulation Framework Using HLA for Circular Economy Modeling in Road Construction ----- 1769

Tim Bernhard, Omar Abbasi, Joseph Louis, Johannes Fottner

BIM Design Assistant Driven by LLM Agents ----- 1777

Jin Han, Sining Zhoubian, Xin-Zheng Lu, Zhen-Zhong Hu, Jun Ma, Jia-Rui Lin

An Automated Optimization Framework for Hierarchical Access Road Design in Onshore Wind Farm Construction ----- 1785

Yuxuan Cheng, Fumiya Matsushita, Sheng Lian, Takahiro Sayama, Takumi Kaneko

BIM-based Hybrid Knowledge Graph based on DSL for Computational Design Rule Formalization ----- 1793

Huzhou Deng, Dian Zhuang

In-Context Trajectory Learning for Construction Scheduling Using Large Language Models ----- 1801

Shanika Manamperi, Wei Peng, Guomin Zhang

A domain ontology for representing core modular building components aligned with Linked Building Data and Design for X principles----- 1807

Salik Ahmed Khan, Yang Zou, Minh Kieu

Construction of BIM-FM Data Linkage Methods Based on Real Estate Ownership Forms and Implementation in Management Systems----- 1815

Ryoyu Tanaka, Kosei Ishida, Toshimasa Itaya, Kenji Ishihara

Retrieval-Augmented Generation and Multi-Agent Arbitration for Construction Code Compliance in AEC ----- 1824

Hao Yin, Xichen Chen, Yang Zou, Liupengfei Wu

An automated approach to quantify exposure of informal urban settlements using UAV and Scan-to-BIM ----- 1832

Mirian Ruth Merma Onofre, Christopher Joseph Nuñez Varillas, Carlos Francisco Davila de la Cruz, Miguel Luis Estrada Mendoza, Marck Steewar Regalado Espinoza, Raul Oswaldo Gonzalez Ortiz, Kenny Arnold Sebastian Requelme Cotrina, Ángel Martín Quesquén Ramírez

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Karen DSouza, Yuting Chen, Gongfan Chen, Lingguang Song, Don Chen

Building Evacuation Parameter Benchmarking: From Multi-Camera Video to Multi-Area 2D/3D Evacuation Trajectory and Congestion Analysis ----- 1872

Diran Yu, Abdul-Majeed Mahamadu, Weiwei Chen, Yang Su, Fujia Lyu, Jieyu Chen, Jiaxu Huang, Nan Li

Evaluating Carbon Payback Period in Parametric Facade Optimization Using Genetic Algorithms and Multi-Criteria Decision-Making ----- 1880

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Bridging Building Information Modelling and Natural Language Processing: A Systematic Review on Current Applications and Limitations ----- 1888

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Bridging Simulation and Practice: Surrogate-Based Production Scheduling for Stochastic Modular Construction----- 1896

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Zihao Zheng, Karunakar Reddy Mannem, Borja Garcia de Soto

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Intelligent Automation and Optimization of Structural Design in BIM-Based Workflows: Case Studies ----- 1936

Tafraout Salim, Bourahla Nouredine

Hybrid simulation in construction: Trends and design framework----- 1944

Xuming Zhu, Jinchi Han

A VLM-Driven Workflow for Generating Context-Specific Fire Hazards for VR Construction Safety Training ----- 1952

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Optimal Transport Theory-based Framework for Affective Design Revision in BIM Environment ----- 1968

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Youheng Guo, Xuesong Shen, Khalegh Barati, James Linke

A Systematic Study on Instance-Level Bridge Point Cloud Segmentation under Cross-Type and Synthetic-Real Training Conditions ----- 1984

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Sajith Wettewa, Lei Hou, Kevin Zhang

Ensembled Machine Learning-Based Cost Prediction Model for Modular and Offsite Construction Projects in Canada ----- 2024

Qudrati Al Wasiew, Amirhossein Mehdipoor, Aryan Hojjati, SangHyeok Han

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Ruiyan Zheng, Jinying Xu

Robot assisted selective disassembly for buildings ----- 2039

Kara Williams, Anupam Satumane, Shayan Shayesteh, Benjamin Sanchez

A Particle System Approach to Simulating Construction Sprays: Shotcrete, Painting, and Abrasive Blasting ----- 2046

Mohammad Reza Yazdi Samadi, Ralf Waspe, Ali Muhammad, Christian Schlette

Structural Semantic Segmentation and Fine-Grained Surface Feature Extraction in Heritage Buildings ----- 2054

Jingxuan Li, Jian Bi, Vincent Gan, Michael Chew

A scalable reinforcement learning framework for task allocation in flexible construction scenarios ----- 2062

Yifan Wang, Bin Yang

A Framework for Multi-scale Quantitative Defect Inspection of Concrete Bridge Surface Using Multi-view RGB-D Data ----- 2070

Sungwoo Cho, Seunghun Im, Taegyu Kim, Duho Chung, Ilhyoung Shin, Hyeongu Ji, Hyoungkwan Kim

A Framework for 3D Reconstruction of Concrete Box-Girder Interiors from Point Cloud Data ----- 2078

Taegyu Kim, Seunghun Im, Duho Chung, Sungwoo Cho, Ilhyeong Shin, Hyeongu Ji, Hyoungkwan Kim

Incremental IFC updates with ‘why’ and ‘how’: A case of IFC extension for LLM agent-enhanced simulation-based optimization for building energy efficiency----- 2086

Lingming Kong, Qianyun Zhou, Fan Xue

Automated Subway Tunnel Leakage Segmentation: A Data-Efficient Fine-Tuning Strategy Based on Large Vision Foundation Models----- 2094

Longfei Dai, Zhiyao Tian, Shunhua Zhou

Experimental Design and Field Validation of a 3DGS-based Rebar Inspection Testbed for Infrastructure Projects----- 2102

Kumar Adarsh, Ashwani Jaiswal, Nikhil Bugalia

A structured Prompt Engineering Framework for Modular Construction Design Using Generative AI----- 2110

Zaid Alwashah, Bo Xiao, Hexu Liu, Xiaoyun Shao, Xiaoman Wang

Semantic Point-of-Interest-Driven IFC-Based Robot Navigation in Indoor Environments - 2118

Muhammad Shoaib Khan, Zhihao REN, Ho Jin Lee, Seonghyeun Kim, Woo-yong Jung, Jung In Kim

Process-Aware Reward Modeling for Automated Construction Planning----- 2126

Akarsth Kumar Singh, Shang-Hsien Hsieh

Lean Enablers for Digitalization and Automation

Towards Practical Digital Twin Construction Systems-----	2134
Timson Yeung, Rafael Sacks	
Disaster Response Report Generation System -----	2142
Ming-Lu Liu, James Yichu Chen	
Real-Time Carbon Intelligence for Modular Buildings: An IoT-BIM Approach -----	2150
Yu Wang, Yue Teng, Yucheng Guo, Geoffrey Qiping Shen	
From On-Site Video to Crew Balance Charts: A Computer Vision Approach for Worker Productivity Analysis-----	2158
Sai Kumar Titti, Aritra Pal, Varun Kumar Reja, Koshy Varghese	
BIM-LPS Integration Case Study in MEP sector: Automating Phase Schedule Generation -----	2166
Maroua Sbiti, Djaoued Beladjine, Abinandana Boodi, Lionel Chevalier, Karim Beddiar	
AI-based Dynamic Quiz System: Disaster Knowledge King-----	2174
Chen-Hao Tseng, James Yichu Chen	
Permission Blockchain-BIM Framework for Construction Dispute Prevention-----	2182
Hani Alzraiee, Abdelrahman Madkour, Elbethel Muluye, Shiwam Singh	
Robot-Oriented Lean Construction: A Toolkit Primer and the Pathway Forward -----	2190
Rongbo Hu, Hiroki Yajima, Jiazhen Mao, Keiji Tanaka, Soungcho Chae, Thomas Bock	
Schedule-Driven Lightweight 4D Simulation for the Setup Phase: Enabling Practitioner-Led Construction Planning-----	2198
Yuko Ishizu, Kota Yoshifuji, Shun Matsumoto, Muneyuki Ohigarshi, Hiroaki Yamasaki	
Activity Flow-Based Modeling and Simulation for Construction Process Visualization-----	2206

Sensing systems & data infrastructures

Riverbed Depth Measurement Method Combining Visual SLAM-Based Camera Pose and Ultrasonic Slant Range ----- 2214

Norihito Kishi

Trial of Point Cloud Registration Method at Excavation Sites and Implementation of Machine Guidance System ----- 2218

Kai Sato, Takashi Yokoshima, Yuki Miyashita, Aoi Tarutani, Keisuke Imoto, Fuku Himuro, Yutaro Fukase, Yusuke Nishida, Yusuke Shibata, Toshiki Aizawa

An Integrated Product–Process Representation for Deriving Robotic Task Structures using Graph Transformations ----- 2226

Maikel Jean Silvo Brinkhoff, Sebastian Esser, André Borrmann

Near-Field Laser-Line Pose Sensing for Absolute Localization of Mobile Robots and Handheld Tools in Construction ----- 2234

Pok Yin Victor Leung, Alvaro Cassinelli, Miu Ling Lam

A Comparative Study of Mobile Device and Terrestrial Laser Scanning-Based Scan-to-BIM Workflows ----- 2242

Ahmet Bahaddin Ersoz, Frédéric Bosché

A BIM-IoT Based Digital Twin Framework for Real-Time Indoor Environmental Quality Optimization in Educational Buildings ----- 2250

Yashvi Rajendrakumar Unadkat, Varun Kumar Reja, Arnab Jana

An Integrated Unmanned Aerial Vehicle-Based Framework for Crack Detection and Classification of Bridge Infrastructure ----- 2258

Saleh Abu Dabous, Fatma Hosny, Bharadwaj R. K. Mantha, Sainab Feroz

Assessing Network Level Reconnaissance Risks in ROS2 Enabled Service Robots for Smart Infrastructure Operations ----- 2266

Abdul Shakir, Hiba Jomaa, Bharadwaj R. K. Mantha

Field Evaluation of a Wearable Framework for Worker Motion Recognition and Zone-Level Localization ----- 2274

MinJun Chang, Sai Machiraju, Yong K. Cho

From satellite images to urban-scale air temperatures: A Multi-Layer Perceptron approach ----- 2282

Geunchan Song, Azarakhsh Rafiee, Martín Mosteiro Romero

A Survey-Controlled Photogrammetric Framework for Consistent Multi-Floor Geometry Estimation in Robotic Facade Installation ----- 2290

Danya Liu, Niki Kentroti, Kepa Iturralde

Real-Time Temporal Convolution based Worker Motion Recognition with Three IMU Sensor Combinations ----- 2298

MinJun Chang, Sai K. Machiraju, Francis Baek, Yong K. Cho

UAV Surveying for Emergency Facility Construction: Recent Advances in Data Collection and Processing ----- 2306

Congzhen Yang, Gengrong Zhang, Ke Chen

AI-Based Internal Structural Modeling Using Muon Tomography and Few-shot Parameter Calibration ----- 2313

Mudan Wang, Erika Parn, Sihan Liu, Borja Garcia de Soto, Soheila Kookalani, Sander Sein, Tengiz Pataraia, Ioannis Brilakis

Vision-Enabled Supervisory Feedback Loop for Extrusion Failure Mitigation in Robotic Additive Manufacturing ----- 2321

Hendrik Benz, The Vinh Nguyen Trong, Kunaljit Chadha, Massimo Visonà, Katharina Klemm-Albert

A Generative AI-Based Construction Safety Assistant Using Retrieval-Augmented Generation ----- 2329

Xiaoyu Hou, Aakash Walavalkar, Bo Xiao

OperaSimVR: An Immersive XR Interface for Cyber-Physical Systems in Construction -- 2337

Kota Akinari, Yuichiro Kasahara, Tomoya Kouno, Akinosuke Tsutsumi, Genki Yamauchi, Daisuke Endo, Taro Abe, Takeshi Hashimoto, Keiji Nagatani, Ryo Kurazume

Reconstructing Ground-Penetrating Radargrams into 3D Point Cloud Format for Building Inspection: A Web AR Approach Evaluated by Technology Acceptance Model ----- 2345

Meng Sun, Longyong Wu, Ying Katherine Deng, Xiao Li, Fan Xue

The information backbone of robotized construction: Principles, procedures, and software architecture ----- 2353

André Borrmann, Tobias Bruckmann, Kathrin Dörfler, Timo Hartmann, Kay Smarsly, Maikel Brinkhoff, Avishek Das, Sebastian Esser, Mohab Hassan, Christoph Jeziorek, Nayun Kim, Mohammad Reza Kolani, Ankita Maurya, Stavros Nousias, Panagiotis Petropoulakis, Aditya Tandon, Tamira Wrabel

Beyond Geometric Conversion: Enriching Industrial CAD Models for BIM-Based Design 2361

Davide Avogaro, Maximilian Maria Wurm, Johan Wickström, Carlo Zanchetta

A Two-Stage Blind Source Separation Method for Structural Health Monitoring Signals Integrating Deep Kernel Regression and Wavelet Multiresolution Analysis----- 2369

Boqiang Xu, Xiuzhen Tian, Junhui Han, Chao Liu, Qian-Cheng Wang

Construction Site Layout Monitoring Using Instance Segmentation----- 2377

Vimal Bharathi, Jochen Teizer

Trajectory-Based Activity Recognition for Earthmoving Operations Using Finite-State Machines ----- 2385

Kepeng Hong, Jochen Teizer

A Care-Centered Vision—Language Model Framework for Evaluating Urban Under-Bridge Spaces for Older Adults ----- 2393

Zian Huang, Siwei Zhang, Xingyu TAO

A Digital Twin Simulation Framework for Conveyor-Based Construction Waste Sorting Using RGB-Derived Mesh Assets ----- 2401

Shanuka Dodampegama, Avish Singh, Lei Hou, Ehsan Asadi, Kevin Zhang, Sujeeva Setunge

From 2D Drawings to BIM Models: An LLM-Assisted Approach ----- 2410

Jean Viaunel Victor, Pavan Kumar, Shang-Hsien Hsieh

From Crowdsourced Noise to Resilient Intelligence: Reliable Social Media Flood Image Localization for Real-time Situational Awareness----- 2415

Zihua Zhu, Xianfei Yin, Qihua Chen

Mapping Digital Solutions for Productivity and Disruption Monitoring in Construction----- 2423

Zhengyang Ling, Danny Murguia, Ashan Senel Asmone, Sam Brooks, Campbell Middleton

BIM-Integrated UAV Workflow for Automatic Facade Inspection Using IR Imagery and Component-Level Thermal Analysis----- 2431

Enrique Aldao, Gálata Martínez-Alonso, Gabriel Fontenla-Carrera, Higinio González-Jorge

Hyperledger Fabric-Based Blockchain Application in Modular Construction Manufacturing ----- 2439

Angat Bhatia, Vafa Rostamiasl, Osama Moselhi

RepCA-GCN: A Lightweight and Efficient Method for Real-Time Construction Worker Action Recognition via Structural Re-parameterization ----- 2447

Jinhui Liang, Hui Deng, Zhou Zhang, Wenhao Li, Yichuan Deng

Automatic Concrete Pipe Material Detection from Mobile Laser Scanning Data Using Transfer Learning ----- 2455

Kartika Nur Rahma Putri, Khalegh Barati, Xuesong Shen, James Linke

Services and business applications / Industry & Short Papers

A Multi-Camera Human Tracking Framework for Safe Human-Robot Collaboration in Construction-Site Robotic Arm Operations ----- 2463

Ren-Jie Li, Meng-Han Tsai, Liang-Ting Tsai, Yuxiang Chen, Ci-Jyun Liang

Modern Methods of Construction and IoT Adoption in New Zealand School Buildings: A Descriptive Multiple-Case Study----- 2467

Odinaka Chukwu, Tochukwu Nnaji, Mostafa Babaeianjelodar, Eziaku Rasheed, Yijun Zhou, Lilian Obi-George

Identifying and Classifying Residents' demand for Smart Community Development: An Empirical Analysis from China ----- 2473

Yujia Shan, Tiantian Gu

An LLM-Integrated BIM Workflow for Rapid Early-Stage Layout Generation of Worksite Trailers ----- 2481

Pan Chao-Hsu, Li Ren-Jie, Tsai Liang-Ting, Yang Cheng-Hsuan, Tsai Meng-Han

Prompt Engineering and Video Segmentation Strategies for VLM-Based Action Recognition in Prefabrication Workflows ----- 2488

Chien-Wen Chen, Ren-Jie Li, Liang-Ting Tsai, Cheng-Hsuan Yang, Meng-Han Tsai

SAGE: A Knowledge-Grounded Multi-Agent Framework for Automated MEP Drawing Interpretation ----- 2493

Vivek Vishwas Vichare, Pratik Khandelwal, Aditya Debnath, Divya Singh Rathore, Gauri Lamb, Paul O'Neill

Technology management and innovation

Systems Engineering for Adapting General-Purpose Robots for Construction Project Operations ----- 2499

Hadrien Roy, Rongbo Hu, Satwik Arawalli, Shubham Singhal, Sanjiv B N, Zi Jie Tan, Hongjie Cai, Keiji Tanaka, Soungcho Chae

Development of a Prototype AI-Driven Career Guidance System for the Australian Construction Industry ----- 2507

Diya Yan, Yi Ding, Cynthia Changxin Wang, Riza Yosia Sunindijo, Xushuo Tang, Ziyao Lu, Wenqian Zhang, Zhengyi Yang

Tackling Site-Based Challenges: The Mitigating Role of Construction 4.0 in Advancing Women's Participation ----- 2515

Aba Essanowa Afful, Cynthia Changxin Wang, Riza Yosia Sunindijo

Strategies to Overcome BIM Barriers in the AEC Industry of Iran ----- 2523

Tahere Asghari, V Paul C Charlesraj

Decision-Support Framework for Evaluating Steel Connection Systems for Adoption in Construction ----- 2531

Tolulope Oyeyipo, Ibukun Awolusi, Arturo Schultz, Debra Laefer, Salam Al-Sabah

Evaluation of Technical Readiness Level for Intelligent Construction Robots ----- 2539

Hongrui Yu, Somin Park

Digital Games about Technology and Sustainability in the Human-centred Built Environment: a literature review ----- 2546

Ming Shan Ng, Tsz Kiu Tam, Clara Cheung, Tsukasa Ishizawa, Yifan Xu, Akilu Yunusa Kaltungo

Influences of artificial intelligence and blockchain technology on construction supply chain ----- 2554

Bryce Meekes, Melissa Chan, Wei Yang, Vaughan Coffey, Bambang Trigunarsyah

Development and Implementation of an OpenBIM-LCA Workflow for Factory Planning--- 2562

Leonie Grosse-Wilde, Luca Philipp, Tina Esmaeilzadeh, Hannah Leisten, Sven Mackenbach, Matthias Schmidt, Katharina Klemmt-Albert

Methods for finding photos of parts of buildings in virtual space ----- 2570

Kosei Ishida

A Spatial Multi-Criteria Framework for Assessing Last-Mile Delivery Resilience in Modular Construction Supply Chains: A Network-Based Analysis of Lille----- 2577

Saad El babidi, Zoubeir Lafhaj

Event-based Subsurface Utility Data Collection Framework ----- 2585

Vignesh Vijayalakshmi Palanisamy, Senthilkumar Venkatachalam

MR-based Immersive Co-Design of Housing for Climate Displacement ----- 2593

Viktoriia Bezverkhnia, Bo Su, Muhammad Fawad, Qian Chen