

## CRC Podium Presentation Schedule (Tentative)

March 19, 9:45 am – 10:45 am				
Stream	PaperID	Title	Authors	
5	9:45 am - 10:00 am	CRC2026-D-25-00002	Enhancing Project Performance with Real-Time Information: What and When to Monitor	Daniel Mehrabi, Ph.D.; David Grau Torrent, Ph.D., PE
	10:00 am - 10:15 am	CRC2026-D-25-00094	LLM-Adjusted TF-IDF Approach to Enhance Context Awareness and Transparency for Cost Data Automation	Di Liu, Ph.D; Preston Robinson; Adrienne Walley; Rui Liu, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00337	Real-Time Enhancement of Safety-Critical Warning Signals in Highway Construction Noise Using DeepFilterNet on Portable Devices	Thinh Nguyen; Tuyen Le; Chau Le
	10:30 am - 10:45 am	CRC2026-D-25-00769	Procedural Learning Through VR-based Embodied Conversational Agents for Construction Safety Education	Rahat Hussain, Ph.D.; Yewande Abraham; Chukwuma Nnaji
6	9:45 am - 10:00 am	CRC2026-D-25-00287	BIM Augmented VR Teleoperation for Precision Robotic Arm Manipulation with Human-in-the-Loop in Low Level Construction Tasks	Oscar Poudel; Ghadi Charbel; Rayan H. Assaad, Ph.D.; Mohamad Awada
	10:00 am - 10:15 am	CRC2026-D-25-00255	Integrated Mixed Reality Teleoperation Framework for Humanoid Robots in Construction: Real-Time Perception and Control with Safety-Aware Simulation	Yuming Zhang; Houtan Jebelli, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00284	In-Situ Resource Utilization (ISRU) for Autonomous Remote Construction: Trends and Applications	Kambiz Kia, Ph.D.; Yusna Ayer, Master of Science; Kereshmeh Afsari, Ph.D.; Tanyel Bulbul, Ph.D.
	10:30 am - 10:45 am	CRC2026-D-25-00297	Risk-Aware Motion Planning for Tower Cranes using Adaptive Safety Margin	Samihha Tasnim; Inbae Jeong, Ph.D.; Youjin Jang, Ph.D.
7	9:45 am - 10:00 am	CRC2026-D-25-00671	Data-Driven Decision-Making Modeling for Construction Organizations: Optimizing Complex Challenges in Resource Allocation	Kyudong Kim, Ph.D.; Arkajyoti Roy, Ph.D.; Kasey M. Faust, Ph.D.
	10:00 am - 10:15 am	CRC2026-D-25-00004	Automated Elevation Clash Detection in Building Information Models (BIM): Application to Clearance Distances for Mechanical, Electrical, and Plumbing (MEP) Systems	Ghiwa Assaf; Rayan H. Assaad, Ph.D.; Sara Fayek; Mohamad Awada
	10:15 am - 10:30 am	CRC2026-D-25-00007	Creating Realistic Virtual Disaster Environments for First Responder Training	Sultan Al Shafian; Da Hu, Ph.D.
	10:30 am - 10:45 am	CRC2026-D-25-00008	AI-Driven Disaster Response System Through Social Media Intelligence and Autonomous Drone Deployment	Chao He; Da Hu, Ph.D.
8	9:45 am - 10:00 am	CRC2026-D-25-00021	Risk Assessment of the Facade Design and Delivery Process	Marie Belle Georges; Issam Srouf; Hicham Abou Ibrahim
	10:00 am - 10:15 am	CRC2026-D-25-00823	Decision-Making and Infrastructure Delays: Why U.S. Highways and Overpasses Take Longer to Build Than Most Developed Countries	Mallory Rao; Tulio Sulbaran, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00826	Collaborate to Innovate: Advancing Innovative Project Delivery Methods in the Age of Artificial Intelligence (AI)	Rajnish Lekhi, DBA; Deepak K Sharma, PhD; RakeshKumar Mahto, PhD
	10:30 am - 10:45 am	CRC2026-D-25-00055	Navigating institutional resistance in business model transformation for sustainable construction	SHRIKARPAGAM DHANDAPANI, M.S; Ashwin Mahalingam
9	9:45 am - 10:00 am	CRC2026-D-25-00069	Exploring Risk-Based Inspection Strategies for Bridge Deck and Girder Projects	Nhien Le, Ph.D student; Daniel Tran, Ph.D.
	10:00 am - 10:15 am	CRC2026-D-25-00102	An Exploratory Study on Value for Money (VfM) Tool with Pre- and Post-Construction Data of Public Private Partnership Highway Projects	Pooja Basnet, BSCE; Pramen Shrestha, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00088	Regulatory Barriers on Construction Planning: Introducing A Meta-Ethnographic Review of Housing Regulations Constraints on Market Innovation	Evan Kennedy, M.S., B.E.D.; Julie Ann Hartell, Ph.D.
	10:30 am - 10:45 am	CRC2026-D-25-00549	From Curriculum to Capstone: Advancing Career Readiness in Construction Engineering	Brandon M. Fulk, PhD Student; Sogand Hasanzadeh, PhD
10	9:45 am - 10:00 am	CRC2026-D-25-00244	Challenges and Opportunities in Construction Automation: Insights from Industry Professionals	Sanjeev Adhikari, Ph.D.; Edson Bispo Parra; Da Hu
	10:00 am - 10:15 am	CRC2026-D-25-00212	Spatial Ability in Construction: A Systematic Literature Review	Foysal Ahmed, M.Sc.; Ricardo Eiris, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00546	Engineering Students' Acceptance or Resistance to Critical Consciousness Pedagogy in Class	Joshua Samuel Mensah-Larkai, B.Sc; Cristina Poleacovschi, Ph.D
	10:30 am - 10:45 am	CRC2026-D-25-00312	Efficacy of Immersive Robotics Learning in Construction Education: Investigating Demographic Influences on Student Interaction with Virtual Robots	Amit Ojha; Anusha KC; Yogesh Gautam; Shayan Shayesteh; Houtan Jebelli, Ph.D.; Abiola Akanmu
11	9:45 am - 10:00 am	CRC2026-D-25-00137	Exploring Cognitive Load Markers in Construction Fatality Reports: An LLM-Based Approach	Elvis Adjei, MSc; Ziyu Jin, Ph.D.; John Gambatase, Ph.D.
	10:00 am - 10:15 am	CRC2026-D-25-00148	Visual Attention in Pre-Evacuation: Interplay of Fear, Anchoring, and Social Cues in Decision-Making	Johnson Adetooto; Seonho Woo; Myoungsoon Jeon; Young-Jun Son; Behzad Esmaeili
	10:15 am - 10:30 am	CRC2026-D-25-00144	Influence of Contract Management Strategies on the Safety Performance of Construction Projects	Kaushik Bhattacharjee, Ph.D.; Arpith Pradeep; Dhairya Chavda; Murali Jagannathan, Ph.D.; Nikhil Bugalia, Ph.D.
	10:30 am - 10:45 am	CRC2026-D-25-00145	Ageism in the Construction Workforce: Strategies for an Age-Inclusive Industry	Younghan Edwin Jung, Ph.D.; Micheal Myung Jeong, Ph.D.
12	9:45 am - 10:00 am	CRC2026-D-25-00393	Exploring Key Performance Indicators for Energy Efficiency in Data Center Operations	Cansu Coskun, M.Sc.; Hayoung Kim, M.Sc.; Deniz Besiktepe, Ph.D.; Soowon Chang, Ph.D.
	10:00 am - 10:15 am	CRC2026-D-25-00421	Governance Criteria for Responsible Management Entities of Decentralized Wastewater Infrastructure Systems	Shima Nikkhou; Amal Bakchan, PhD
	10:15 am - 10:30 am	CRC2026-D-25-00242	A Synthesis Study on the Integration of Artificial Intelligence in Construction Safety Education and Training	Hongyue Wu, Ph.D.
	10:30 am - 10:45 am	CRC2026-D-25-00247	Evaluating an AI Feedback Tool for LEED Writing in a Construction Capstone	Zhenlin Yang; Gabriel Castelblanco; Laura Cruz-Castro
13	9:45 am - 10:00 am	CRC2026-D-25-00343	Talk, See, Support (TSS): A Wearable Multimodal, Intelligent, Agentic LLM-Powered Construction Assistant for Real-Time On-Site Guidance and Compliance Monitoring	Oscar Poudel; Mohamad Assaf; Rayan H. Assaad, Ph.D.; Mohamad Awada
	10:00 am - 10:15 am	CRC2026-D-25-00026	Prototype Design of Digital Twins and Visual Indicators of Human-Centered Interface for Teleoperated Robot Control in Lunar Construction	Miran Seo; Samraat Gupta; Youngjib Ham, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00256	Assistive Autonomy and Safety Overlays for Mixed-Reality Guided Humanoid Teleoperation in Construction	Yuming Zhang; Houtan Jebelli, Ph.D.
	10:30 am - 10:45 am	CRC2026-D-25-00570	Mapping Infrastructure Vulnerabilities Through Indigenous and Local Knowledge in Rural Alaska	Ana Lacau, Graduate Student; Kasey Faust; Haniye Safarpour; Lauryn Spearing; Keri Stephens

## CRC Podium Presentation Schedule (Tentative)

March 19, 11:00 am – 12:00 pm				
Stream	Time	PaperID	Title	Authors
5	11:00 am - 11:15 am	CRC2026-D-25-00323	Impact Of Augmented Reality on Construction Assembly Efficiency: A Comparative Analysis of Craft Worker Performance Across Experience Levels	Rahul Chaudhari, Doctoral Candidate; Paul Goodrum, Ph.D., P.E.; Nolan Brady, Doctoral Candidate
	11:15 am - 11:30 am	CRC2026-D-25-00329	Post-Disaster Building Damage Assessment Using Drone Imagery and Deep Learning	Sultan Al Shafian; Kiara O'Neal; Tanjila Rashid Rhythy; Sijie Gao; Adeel Khalid, Ph.D.; Honghui Xu, Ph.D.; Da Hu, Ph.D.
	11:30 am - 11:45 am	CRC2026-D-25-00319	Salt Pile Measurement for Winter Maintenance Using Modern Sensing Technologies: Toward Accurate and Cost-Effective Inventory Management	Abbas Mohammadi, M.S.; Pouria Mohammadi; Biao Kuang; Gang Jiang; Abbas Rashidi, Ph.D.; Jianli Chen, Ph.D.; Jessica Wempen, Ph.D.
	11:45 am - 12:00 pm	CRC2026-D-25-00334	Improving Generalization Capability of Construction Vision Systems in PPE Detection through Artificial Intelligence-Generated Synthetic Images	RUISONG ZHENG, Master of Building Science; Hubo Cai
6	11:00 am - 11:15 am	CRC2026-D-25-00275	ConstrucSim: A Reproducible Platform for Dexterous Humanoid Robot Perception, Planning, and Contact in Construction	Tianyu Ren; Iftekhar Hasan; Xiayu Zhao; Yizhi Liu, Ph.D.; Houtan Jebelli, Ph.D.
	11:15 am - 11:30 am	CRC2026-D-25-00587	Large Multimodal Model-Based Framework for Contextual-Conditioned Task-Based Autonomous Positioning of Mobile Construction Robots	Seongju Jang; Francis Baek; SangHyun Lee
	11:30 am - 11:45 am	CRC2026-D-25-00281	Advances in Robotic Perception for Construction Automation: A Systematic Literature Review	Yanxi Liu; Dorna Jokar; Dong Zheng; Mahmoud Habibnezhad; Yizhi Liu
	11:45 am - 12:00 pm	CRC2026-D-25-00628	Automated Inspection of Concrete Column Verticality Using Laser-Scanned 3D Point Clouds	Abdullah Alsuhaibani, Ph.D.
7	11:00 am - 11:15 am	CRC2026-D-25-00010	Pavement Deterioration Prediction by Integrating Agent-Based Simulation and Transformer-Based Machine Learning Models for Smart Infrastructure Asset Management	Ghadi Charbel; Oscar Poudel; Mohamad Assaf; Rayan H. Assaad, Ph.D.; Mohamad Awada
	11:15 am - 11:30 am	CRC2026-D-25-00011	Comparative Analysis of Machine Learning Models for Predicting Bridge Condition Ratings: A Massachusetts Case Study	Sara Asgari; Farzane Asgari; Tyrone Hua; Sadegh Asgari, Ph.D.
	11:30 am - 11:45 am	CRC2026-D-25-00003	Impact of Multimodal Cues on Flood Risk Perception and Evacuation Decisions in Virtual Reality	Hardik Chauhan; Youjin Jang, Ph.D.; Jisoo Park, Ph.D.; Inbae Jeong, Ph.D.
	11:45 am - 12:00 pm	CRC2026-D-25-00016	Generative Design of Interim Housing Sites for Homeless Communities	Hisham Said, Ph.D.; Joanne Price
8	11:00 am - 11:15 am	CRC2026-D-25-00079	Influence of Contractor Attributes on Highway Construction Project Performance: Mitigating Cost and Schedule Variations	Minerva Bonilla, Ph.D.; Heba Al-Kailani, M.S.; Gabriel Castelblanco, Ph.D.
	11:15 am - 11:30 am	CRC2026-D-25-00749	A Novel Graph-Based Approach to Bidding Tendency Monitoring in Low-Bid Procurement for Highway Construction	Muhammad Ali Moriyani, PhD Candidate; Chau Le, Ph.D.; Tuyen Le, Ph.D.; Harun Pirim
	11:30 am - 11:45 am	CRC2026-D-25-00073	Investigating Causes of Disputes in Green and Sustainable Construction Projects	Bahaa Chamhout; Islam H. El-adaway, Ph.D.; Islam H. El-adaway2
	11:45 am - 12:00 pm	CRC2026-D-25-00066	Risk Allocation and Management in Progressive Design-Build: A Comparative and Qualitative Analysis	Malek Alazzam; Amelia Celozza, Ph.D.; Keith R. Molenaar, Ph.D.
9	11:00 am - 11:15 am	CRC2026-D-25-00125	From Planning to Implementation: A Mixed-Integer Optimization Framework for Onsite Wastewater Treatment Systems in Limited-Resource Rural Communities	Esmā Birisci, Ph.D.; Amal Bakchan, Ph.D., A.M.ASCE
	11:15 am - 11:30 am	CRC2026-D-25-00101	Identifying Regional Disparities in Affordable Housing Supply for Construction Planning and Policy	Minsoo Baek, Ph.D.; Jung Hyun Lee, Ph.D.; Frederick Chung, Ph.D.
	11:30 am - 11:45 am	CRC2026-D-25-00078	Systematic Review of Constructability Reviews Implementation for Highway Construction Projects	Nhien Le, Ph.D student; Daniel Tran, Ph.D.
	11:45 am - 12:00 pm	CRC2026-D-25-00685	Highway Construction Cost Index: A Comparison between Two Prevalent Methodologies under the US Pandemic-Era Inflation	Zaid Alwashah; Shengxian Tang, Ph.D.; Hexu Liu, Ph.D.; Hosam Olimat; Timothy Pritchard
10	11:00 am - 11:15 am	CRC2026-D-25-00545	Developing Core Competencies for the Air Force Civil Engineer Asset Management Career Field	David Rochester, M.S.; Daniel Weeks, Ph.D.; Benjamin Knost, Ph.D.
	11:15 am - 11:30 am	CRC2026-D-25-00867	Evaluating Cognitive Load and Usability of a VR-based Construction SiteÂ Simulation for Learners Across Disciplines	Yewande Sonayon Abraham, Ph.D.; Oluwatobiloba Olanipekun; Dileep K Sharma; JiaXu Chen; Chukwuma Nnaji, Ph.D.; Abiola A. Akanmu, Ph.D.
	11:30 am - 11:45 am	CRC2026-D-25-00532	Attracting and Retaining Skilled Labor in Canadian Residential Construction	Lahiru Purna Silva, Ph.D.; Piya Kaluthantrige, Ph.D., P.Eng.; Janaka Y Ruwanpura, Ph.D.; Kasun N Hewage, Ph.D.; Sandun Wanniarachchi, Ph.D.
	11:45 am - 12:00 pm	CRC2026-D-25-00700	Addressing Mental Health Challenges in Construction Management Education by Exploring Stressors and Support Needs Among Senior Students	Raissa Marchiori, Ph.D.; Siyuan Song, Ph.D.; Zia Din, Ph.D.
11	11:00 am - 11:15 am	CRC2026-D-25-00146	Memory-Augmented Agentic AI for Personalized Construction Health Monitoring	Yogesh Gautam; Ali Sharifronizi; Amit Ojha; Atefeh Mollabagher; Parinaz Naghizadeh; John Messner; Houtan Jebelli, Ph.D.
	11:15 am - 11:30 am	CRC2026-D-25-00188	Empowering Construction Workers toÂ Manage Site Safety Risks Proactively through Wearable Biosensing- and Social Norm-based Intervention	Juhyeon Bae, Ph.D; Jesse V. Jacobs, Ph.D; SangHyun Lee, Ph.D.
	11:30 am - 11:45 am	CRC2026-D-25-00187	Analyzing Driver Behavioral and Attitudinal Characteristics and Their Implications for Work Zone Safety	Bahaa Chamhout; Islam H. El-adaway, Ph.D.; Islam H. El-adaway2
	11:45 am - 12:00 pm	CRC2026-D-25-00152	Bilingual Overexertion-Risk Training for Roadway Construction Workers: A Mixed-Methods Development and Feasibility Study	Heba Al-Kailani; Kaushik Bhattacharjee; Minerva Bonilla, Ph.D.; Chukwuma Nnaji
12	11:00 am - 11:15 am	CRC2026-D-25-00430	A Numerical and Experimental Investigation of Closed-Loop Hydronic Parking Systems for Urban Heat Island Mitigation	Sumeet J. Paramaj, MS; Arumugam Srinivasan, MS; Sundeep Inti, Ph.D., P.E., M.ASCE; Matthew Aldeman, Ph.D.
	11:15 am - 11:30 am	CRC2026-D-25-00431	Evaluating the Impact of Extreme Temperature Events on the US Rail Network	Gabby Gutierrez; Gasser G. Ali, Ph.D.; Constantine Tarawneh, Ph.D.
	11:30 am - 11:45 am	CRC2026-D-25-00433	Residential Cooling Energy Efficiency During Heatwaves in South Texas	Rosa Aimee Castan; Gasser G. Ali, Ph.D.
	11:45 am - 12:00 pm	CRC2026-D-25-00500	Understanding Context-Sensitive Relationships between Disaster Resilience and Equity through Geo-Information Embedded Explainable Machine Learning	Yirong Ding, Ph.D student; Lu Zhang, Ph.D.; Yang Zhang, Ph.D.
13	11:00 am - 11:15 am	CRC2026-D-25-00093	Joint Finance-Based Scheduling for Two Concurrent Projects: A Nash Bargaining Framework	Sadegh Asgari, Ph.D.; Joseph Chalhouh; Farzane Asgari; Sara Asgari; Kaveh Moradi Dezfouli, Ph.D.
	11:15 am - 11:30 am	CRC2026-D-25-00219	Integrating AI into Construction Management Education: Developing Recommendations to Bridge the Knowledge Gap	Mahya Sam, Ph.D.; Claudia Calle Maller, Ph.D; Mohamed Elzomor, Ph.D; Seyedeh Elham Kamali, M.S.
	11:30 am - 11:45 am	CRC2026-D-25-00081	Quantifying Organizational Resilience in the US Construction Industry A Novel Diagnostic Index Approach	Ayman H. El Hakea; Mohamed S. Eid, Ph.D; Islam El-adaway; Emad Elbeltagi
	11:45 am - 12:00 pm	CRC2026-D-25-00178	Assessing Perceived Fall Risk Using a Wearable Inertial Measurement Unit and Electrodermal Activity Sensor During Daily Walking in the Built Environment	John J. Sohn; Hoonyong Lee; JuHyeon Bae; Jesse V. Jacobs; SangHyun Lee

## CRC Podium Presentation Schedule (Tentative)

March 19, 2:00 pm – 3:30 pm

Stream		PaperID	Title	Authors
5	2:00 pm - 2:15 pm	CRC2026-D-25-00403	A Framework of RGB-Thermal Sensor Fusion with Zero-shot and Prompt-aware Deep Learning for Enhanced and Real-time Thermal Anomaly Detection in Buildings	Xi Hu, Ph.D.; Rayan H. Assaad, Ph.D.; Jerrit Williams, Ed.D.; Akshat Santhana Gopalan
	2:15 pm - 2:30 pm	CRC2026-D-25-00405	AI-Enabled Virtual Human to Enhance Cultural Competency in the Construction Industry	Rahat Hussain, Ph.D.; Minerva Bonilla, Ph.D.; Michael Redelick; Juan Pablo Flores Villarreal; Ashrant Aryal, Ph.D.; Chukwuma Nnaji
	2:30 pm - 2:45 pm	CRC2026-D-25-00407	Proximity-Driven Electrotactile Feedback System for Preemptive Excavation Hazard Warnings	Yeon Chae; Abul Al Arabi; Jeeun Kim, Ph.D.; Youngjib Ham, Ph.D.
	2:45 pm - 3:00 pm	CRC2026-D-25-00412	Automated Approach for Clothing Insulation Estimation using RGB Images and Deep Learning	Nidia Bucarelli, Ph.D.; Huzaifa Suri, MS
	3:00 pm - 3:15 pm	CRC2026-D-25-00415	Reducing Fragmentation in Project Communication and Ensuring Real-time Visibility of Project Performance: A Natural Language Processing Approach	Yasmeim Shahin; Mohamed S. Eid, Ph.D.; Khaled Hamdy; Yasmeen A.S Essayy
6	3:15 pm - 3:30 pm	CRC2026-D-25-00816	AI-Powered Real-Time Safety Monitoring in Construction: An Object detection and Depth Estimation Approach	Rizwan U Farooqui, Ph.D.; Mariam El Alaoui; Ilyas Amal; Asad W. Malik, Ph.D.
	2:00 pm - 2:15 pm	CRC2026-D-25-00581	A Framework for VR-Based Safety Simulation of Multi-Robot Human Robot Work Collaboration in Construction	Saratu Terreno, Ph.D.; Pedram Ghannad, Ph.D.; Pooja Podduturi; Naila Mahaveen; Sai Phanindra Siddam
	2:15 pm - 2:30 pm	CRC2026-D-25-00582	Automating Spatial Reasoning and Component Localization for Sustainable Demolition Using Hierarchical BIM Scene Graphs and Multimodal AI	Wei-Yu Hsu; Yuqing Hu
	2:30 pm - 2:45 pm	CRC2026-D-25-00634	Error Taxonomy and Failure Analysis of Large Language Models for BIM Scripting	Zaid Alwashah; Bo Xiao, Ph.D.; Hexu Liu, Ph.D.; Shane Mueller, Ph.D.; Xiaoyun Shao, Ph.D.
	2:45 pm - 3:00 pm	CRC2026-D-25-00726	Exploring Student Trust in a Virtual Learning Environment for Ergonomic Risk Identification and Exoskeleton Training in Construction	Joshua N. Ofori; Colin Logan; Yuhui Zhao; Omobolanle R. Ogunseju, Ph.D.; Thad Starnier; Mariam Ayobami Tomori, M.D
7	3:00 pm - 3:15 pm	CRC2026-D-25-00728	Vision-based Pipeline for Gesture-Driven Robot Control During Tool Handling and Glove Use	Francis Baek, Ph.D.; Seongju Jang; Leyang Wen; SangHyun Lee, Ph.D.
	3:15 pm - 3:30 pm	CRC2026-D-25-00755	Graph-Driven Analysis of Construction Processes for Digitalization and Robot Integration	Nozomi James Hirata, M.Eng.; Yuqing Hu, Ph.D.; John I Messner, Ph.D.
	2:00 pm - 2:15 pm	CRC2026-D-25-00524	Advanced Uncertainty Quantification in Bridge Load Rating Using Probabilistic and Machine Learning Models Informed by BWIM and LRFTR Frameworks	Haiyan Sally Xie, Ph.D.; Mangolika Bhattacharya, Ph.D.
	2:15 pm - 2:30 pm	CRC2026-D-25-00525	Towards Integrated Product-Process Modeling of Crane Operations in Modular Construction Using Smart Objects	Samira Mirhasani, Ph.D. Student; Joseph Louis, Ph.D.; Hisham Said, Ph.D.
	2:30 pm - 2:45 pm	CRC2026-D-25-00641	Diffusion-Based Generation of Multi-Layered Building Layouts for Accessibility Design and Checking in BIM	Haolan Zhang; Ruichuan Zhang, Ph.D.
8	2:45 pm - 3:00 pm	CRC2026-D-25-00642	Leveraging Construction Site Data for Business Intelligence using Enterprise Digital Twins: Insights from UK Contractor Organisations	Abdulmalik Badamasi; Xiang Xie; Mohamad Kassem
	3:00 pm - 3:15 pm	CRC2026-D-25-00646	Leveraging Multimodal Artificial Intelligence Models for Information Acquisition in Building Materials and Components Salvage Assessment	Zheng Lu; Utkarsh Vikram Singh; Yuqing Hu
	3:15 pm - 3:30 pm	CRC2026-D-25-00655	Understanding Value Creation of Project Digital Delivery in Transportation Projects: A Literature Review	Helen Ghali, M.SC.; Roy Sturgill, Ph.D, P.E.
	2:00 pm - 2:15 pm	CRC2026-D-25-00810	Enhancing Construction Site Inspection with a Portable LiDAR-Inertial Odometry-Based Mapping System for Cost-Effective Point-Cloud Integration with BIM and Digital Designs	Pedro Dulanto, Ph.D. Candidate; Ivan Mutis, Ph.D.
	2:15 pm - 2:30 pm	CRC2026-D-25-00417	Automation of BOQ Analysis and Material Selection using NLP and Multi-class Prediction	Omar I. Aly; Mohamed S. Eid, Ph.D
9	2:30 pm - 2:45 pm	CRC2026-D-25-00887	Generative AI and Augmented Reality for Personalized Biophilic Design in Senior Living Environments	Akash Reddy Mallepally; Ruichuan Zhang, Ph.D.; Tanyel Bulbul, Ph.D.
	2:45 pm - 3:00 pm	CRC2026-D-25-00907	Smartphone LiDAR-Based Workflow for Fast On-Site Inspection of Placed Reinforced Bars with BIM	Hojeong Jeong, B.S.; Jisoo Park, Ph.D.; Hyeongi Lee; HeeJun Yang; Mohamed Abdelsalam, M.S.; Sungjin Kim, Ph.D.
	3:00 pm - 3:15 pm	CRC2026-D-25-00930	Bidirectional Prediction of Occupancy and Indoor Environmental Quality	Kofi A.B. Asare, Ph.D.; Srija Repudi
	3:15 pm - 3:30 pm	CRC2026-D-25-00940	AI-Enabled Decision Support for Preconstruction Services Forecasting in State DOTs	Rajnish Lekhi, DBA; Rakesh Mahto; Deepak K Sharma
	2:00 pm - 2:15 pm	CRC2026-D-25-00787	Analyzing the Research Landscape of Construction Teamwork and Crew Dynamics with Topic Modeling	Heung Jin Oh, Ph.D.; Soowon Chang, Ph.D.; Siyeon Kim, Ph.D.; Juhyeon Bae, Ph.D.
10	2:15 pm - 2:30 pm	CRC2026-D-25-00805	Extended Reality and Digital Twins in Construction: A Bibliometric Study	Ina Sthapit; Svetlana Olbina, Ph.D.
	2:30 pm - 2:45 pm	CRC2026-D-25-00839	The Impact of Job Resources on Construction Worker Safety Performance: The Mediating Role of Psychological Distress	Prosper Gbiengu; Muhammad Khan; Chukwuma Nnaji
	2:45 pm - 3:00 pm	CRC2026-D-25-00984	BIM Integrated Material Passport for environmental and economic material recovery from end-of-life buildings across Indian cities.	Sree Valli A; Albert Thomas, Ph.D.
	3:00 pm - 3:15 pm	CRC2026-D-25-00904	BIM-enabled Cost Analysis of Steel Building using Historical Data: A Comparative Analysis of Bolted and Intermeshed Steel Connection Systems	Tololope Oyeyipo; Mehdi Torbat Esfahani; Samir Babu Thapa; Ibukun Awolusi; Arturo Schultz; Debra Laefer; Salam Al-Sabah
	3:15 pm - 3:30 pm	CRC2026-D-25-00941	Advances in Off-site Construction: A Systematic Review of Prefabrication Methods	Fady Mansour; Ashtarout Ammar, Ph.D.
10	2:00 pm - 2:15 pm	CRC2026-D-25-00264	Agility of Construction Curricula in Adopting Emerging Technologies	Saeed Rokooei, Ph.D.; Rizwan Farooqui, Ph.D.
	2:15 pm - 2:30 pm	CRC2026-D-25-00266	Breaking Barriers: Examining Women's Retention and Advancement in the AEC Sector	Heba Al-Kailani, M.S.; Yajie Liu, Ph.D.; Minerva Bonilla, Ph.D.; Eugenio Pellicer, Ph.D.
	2:30 pm - 2:45 pm	CRC2026-D-25-00267	The Importance of Incorporating Collaborative Online International Learning (COIL) in Construction Management Education	Claudia Calle Maller, Ph.D.; Mais Kayyali; Patrizia Santaniello; Natalia Arango Nader; Mohamed ElZomor, PhD.
	2:45 pm - 3:00 pm	CRC2026-D-25-00268	Digital Technologies for Construction Education: Trends across Pedagogical Functions	Xiaoyu Hou; Yifan Wang; Bo Xiao, Ph.D.; Hexu Liu; Shane T. Mueller
	3:00 pm - 3:15 pm	CRC2026-D-25-00269	Human-Centric View of BIM: Understanding BIM-User Job Satisfaction in the AEC Industry	Sharareh Mirzaei; Susan M Bogus Halter; Stephanie Bunt
3:15 pm - 3:30 pm	CRC2026-D-25-00270	Leveraging Generative AI for Asynchronous Learning in Construction Education: A Pilot Case Study on BIM-Based Quantity Takeoff	Shadi Alathamneh, Ph.D. Candidate; Wesley Collins, Ph.D.	

## CRC Podium Presentation Schedule (Tentative)

11	2:00 pm - 2:15 pm	CRC2026-D-25-00199	Impacts of Psychosocial Stressors on Construction Worker Mental Health	Md Tauhidul Karim; Shafayet Ahmed, Ph.D.; Md Nayeem Hoque
	2:15 pm - 2:30 pm	CRC2026-D-25-00189	Personalized, Non-Invasive Core Body Temperature Monitoring for Construction Workers via Wearable Sensing and Deep Learning	Juhyeon Bae, Ph.D; John Jiu Sohn; Jesse V. Jacobs, Ph.D; SangHyun Lee, Ph.D
	2:30 pm - 2:45 pm	CRC2026-D-25-00204	Beyond supervision: The power of role clarity in construction safety climate	Arnaldo Arturo Bayona Malo, Ph.D.; Elif Deniz Oguz Erkal, PhD; Matthew Ryan Hallowell, PhD
	2:45 pm - 3:00 pm	CRC2026-D-25-00205	AI-Driven Insights into Urban Construction: Enhancing Health and Well-Being Across U.S. Cities	Siavash Ghorbany, PhD Student; Ming Hu, PhD; Siyuan Yao; Matthew Sisk, PhD; Chaoli Wang, PhD; Kai Zhang, PhD; Quynh Nguyen, PhD
	3:00 pm - 3:15 pm	CRC2026-D-25-00207	Can Workers Detect Safety-Critical Sounds under Task Load?	Abayomi Ayoola Oladejo; Siddharth Bhandari, PhD; Matthew Morris, PhD; Leaf Van Boven, PhD; Lynneatte Quenin; Matthew Ryan Hallowell, PhD
	3:15 pm - 3:30 pm	CRC2026-D-25-00142	An Investigation of Heavy Equipment Proximity Alert Technology for Last-Minute Changes on Construction Sites	Wei-Hsuen Lee, Ph.D. student; John Gambatese, Ph.D., P.E.; Matthew Hallowell, Ph.D.; Chukwuma Nnaji, Ph.D.
12	2:00 pm - 2:15 pm	CRC2026-D-25-00551	Modeling Interdependencies and Cascading Failures in Critical Infrastructure Using a Multi-System Simulation Framework	Navid Nickdoost, Ph.D.
	2:15 pm - 2:30 pm	CRC2026-D-25-00552	A Dynamic Carbon Accounting Framework for On-Site vs. Off-Site Sorting in Construction and Demolition Waste Management	Chandana Konda; Navid Nickdoost, Ph.D.
	2:30 pm - 2:45 pm	CRC2026-D-25-00553	A framework to synergise dynamism and circularity into Life Cycle Sustainability Assessments (LCSAs) of prefabricated buildings	Megha Sindhu Pradeep; Behzad Rismanchi; Tuan Ngo
	2:45 pm - 3:00 pm	CRC2026-D-25-00554	Biomimicry in Building Design and Construction: A Framework to Address Technical, Economic, and Regulatory Challenges	Janaka Ruwanpura, Ph.D.
	3:00 pm - 3:15 pm	CRC2026-D-25-00557	Effects of Pipe Age on Post-Earthquake Serviceability Measure of Water Distribution Networks	Abhijit Roy, Ph.D.; Mohsen Shahandashti, Ph.D., P.E.; Santosh Acharya
	3:15 pm - 3:30 pm	CRC2026-D-25-00451	Evaluating the Impact of Argon Gas Concentration on the Thermal Performance of Insulating Glass Units	Hamed Khaleghi, M.Sc.; Parisa Salehi, M.Sc.; Aslihan Karatas, Ph.D.
13	2:00 pm - 2:15 pm	CRC2026-D-25-00704	The Impact of Experiential Learning on Adolescent Girls Perceptions of Construction: Lessons from a Week-Long Building Camp	Stacy Kolegraff; Kelsey A. Ginori
	2:15 pm - 2:30 pm	CRC2026-D-25-00706	System Usability and Affective Assessment of a Virtual Learning Environment for Ergonomic Risk Identification and Exoskeleton Use in Construction Tasks	Joshua N. Ofori; Yuhui Zhao; Thad Starnner, Ph.D; Ethan Kimmel; Omobolanle R. Ogunseju, Ph.D.; Mariam Ayobami Tomori, M.D
	2:30 pm - 2:45 pm	CRC2026-D-25-00708	Empowering Construction Workers to Prevent and Control Ergonomic Risks with Exoskeletons	Mariam Ayobami Tomori, M.D; Joshua N. Ofori; Omobolanle R. Ogunseju, Ph.D.; Yong K. Cho, Ph.D.; Nyla Mansha
	2:45 pm - 3:00 pm	CRC2026-D-25-00710	A Comparative Evaluation of Mental Workload Associated with Artificial Intelligence-Driven Construction Sensor Data Analytics	Mohammad Khalid, Ph.D.; Abiola Adegoke; Abiola Akanmu, Ph.D.; Ibukun Awolusi, Ph.D.; Homero Murzi, Ph.D.
	3:00 pm - 3:15 pm	CRC2026-D-25-00788	Is Digital Construction Technology Helping or Hurting? Investigating the Impacts of Digital Learning on Student Mindset and Skillset in Construction Education	Rizwan U Farooqui, Ph.D.; Saeed Rokooei, Ph.D.
	3:15 pm - 3:30 pm	CRC2026-D-25-00952	Enhancing Construction Project Efficiency: An Integrative AI-enabled Framework for Automated 4D Scheduling	Ali Mohammadjafari; Mohammadamin Havaei; Saurav Ghimire; Mahmoud Habibnezhad, PhD

## CRC Podium Presentation Schedule (Tentative)

March 20, 8:00 - 9:30am

March 20, 8:00 - 9:30am				
Stream	PaperID	Title	Authors	
5	8:00 am - 8:15 am	CRC2026-D-25-00512	A Review of Reinforcement Learning for Design in the AEC Industry	Seungah Suh, M.S.; Christopher Rausch
	8:15 am - 8:30 am	CRC2026-D-25-00513	Reducing Demolition Regulatory Non-compliance and Permitting Duration using Question Answering-Retrieval Augmented Generation	Roshan Roshan; Alexander Baldwin; Juyeong Choi, Ph.D.; Mohamed Badr
	8:30 am - 8:45 am	CRC2026-D-25-00517	Automated Construction Progress Reporting from Drone Images via Vision-Language Models	Yajie Liu, Ph.D.; Mojtaba Noghabaei, Ph.D.; Minerva Bonilla, Ph.D.
	8:45 am - 9:00 am	CRC2026-D-25-00518	Data-driven assessment of long-term bidding behavior in construction firms	Huan Zhou, Master; Niping Duan, Master; Qadri H. Shaheen, Master; Qingbin Cui, PhD
	9:00 am - 9:15 am	CRC2026-D-25-00521	Development of an Agentic AI System for Project Planning and Management in a Digital Collaborative Environment	Juan C. Cruz; Benjamin Hemenger; Alejandro M. Perez; Jiannan Cai, Ph.D.
	9:15 am - 9:30 am	CRC2026-D-25-00596	The Current State of Using AI Applications for Field Coordination Meeting Minutes of Construction Projects	Timothy Carl Becker, Ph.D.; Manaswini M. Khadilkar; Vasanti Kadu; Mohammed Arshad Ali; Souhasi Kintali; Yash Anil Darade
6	8:00 am - 8:15 am	CRC2026-D-25-00674	Bridging 4D BIM and Robot Task Planning Systems for Autonomous Construction Operations	Hafiz Oyediran; Kyungki Kim; Pei-Chi Huang; Terry Stentz; Kelli Kopocis
	8:15 am - 8:30 am	CRC2026-D-25-00118	Addressing Challenges in Data Center Construction: Risk Identification and Contractual Considerations	Youssef Lotfy; Islam H. El-adaway, Ph.D.
	8:30 am - 8:45 am	CRC2026-D-25-00647	Detecting Energy-Use Behaviors in Buildings Using A Nonintrusive Sensing and Deep Learning	KAIYU HUANG, M. Eng.; Kaijian Liu, Ph.D.
	8:45 am - 9:00 am	CRC2026-D-25-00645	Vision-Based Segmentation for Localized Construction and Demolition Waste: A Review of Datasets and Techniques	Ashwani Jaiswal; Nikhil Bugalia, Ph.D.; Quang Phuc Ha, Ph.D.
	9:00 am - 9:15 am	CRC2026-D-25-00632	Long-Horizon Pavement Degradation Forecasting: Direct vs. Recursive RNN Models under Short Lookback Window	Khan Linh Nguyen; Houman Kamran Habibkhani, Ph.D.; Tin Phan; Shavil Singh; Pham Anh Thu Nguyen; John Milton Ponce; Negar Ghoojani; Luke Lee, Ph.D.; Baabak Ashuri, Ph.D.; Frederick Chung, Ph.D.
7	9:15 am - 9:30 am	CRC2026-D-25-00636	Enhanced Data-Driven Safety Analysis Using NLP: Extracting Key Information from Highway-Rail Grade Crossing Accident Reports	Siqi Chen, Ph.D.; Dianping Yang; Yu-Cheng Chang; Shanyue Guan
	8:00 am - 8:15 am	CRC2026-D-25-00663	A Review of Artificial Intelligence Applications in Structural Health Monitoring of Bridges Using Digital Twins	Mahdi Ghafoori, Ph.D.; Mirsalar Kamari, Ph.D.; Mojtaba Parsaee, Ph.D.; Afshin Hatami, Ph.D.
	8:15 am - 8:30 am	CRC2026-D-25-00666	Obstacle-Aware Crane Operation Planning for PPVC Projects via Environment Mapping and Digital Simulation	Chhatrapal Pal; Aritra Pal, Ph.D.
	8:30 am - 8:45 am	CRC2026-D-25-00669	Leveraging Historical Data in a GIS-Based Digital Twin: A Scalable Framework for Facility Maintenance Resource Allocation	Kaitelyn Haynes, B.Arch; Daniel Weeks, Ph.D.
	8:45 am - 9:00 am	CRC2026-D-25-00670	Testing the Effects of Virtual Reality Training on the Familiarization of New Heavy Equipment Operators	Brian Fink; Daniel Weeks, Ph.D.
	9:00 am - 9:15 am	CRC2026-D-25-00035	Exploring the Role of Digital Tools in Reverse Logistics: A Stakeholder Perspective	Paula Lopez Alvarez de Neyra, M.S.; Amelia Celozza, Ph.D.
8	9:15 am - 9:30 am	CRC2026-D-25-00674	4D-5D Additive Construction: Integrating 4D and 5D Simulations into 3D Concrete Printing Construction	Jorge Rojas; Sogand Hasanzadeh, PhD
	8:00 am - 8:15 am	CRC2026-D-25-00844	Owner and Engineer Involvement in Temporary Shoring Decisions: Impacts on Risk and Project Delivery	Scott Jennings, P.E.; Samuel T Ariaratnam, Ph.D., PE
	8:15 am - 8:30 am	CRC2026-D-25-00922	Infrastructure Investment and Its Link to Historic Housing Policies: An Analysis of Six A Neighborhoods in the Denver Metropolitan Area	Mitali Vaidyanath; Rodolfo Valdes-Vasquez, Ph.D.; Svetlana Olbina; Alexis R. Kennedy
	8:30 am - 8:45 am	CRC2026-D-25-00924	Preliminary Assessment of Thermal Uniformity in SiC-Modified Concrete for Rigid Pavement Applications	Mohamed AbdelRaheem, PhD, P.E.; Tabatha Herzig; Daniel Weeks, Ph.D., P.E.
	8:45 am - 9:00 am	CRC2026-D-25-00964	Structuring Unstructured Construction Logs: A No-Code ChatGPT Workflow for Entity Extraction	Tianjiao Zhao, Ph.D.; Ri Na, Ph.D.; Xi Wang, Ph.D.
	9:00 am - 9:15 am	CRC2026-D-25-00580	Learning Contact-Rich Construction Skills from Human Demonstrations: A Comparative Analysis of Data Collection Methods	Jia Xu; Xi Wang, Ph.D.
9	9:15 am - 9:30 am	CRC2026-D-25-00791	Understanding Barriers and Opportunities for Technology-Enhanced Weatherization: A Community-Engaged Study for the Design of an AI-Assisted Digital Twin Platform	Kaiwen Chen, Ph.D.; Ahmad Gholizadeh Lonbar; Sophia Arthur; Yining Wen
	8:00 am - 8:15 am	CRC2026-D-25-00842	Contextual Ergonomic Risk Amplification (CERA) Framework: A Novel Approach for Height-Exposed Construction Tasks	Roy Lan, Ph.D.; Ibukun Awolusi, Ph.D.
	8:15 am - 8:30 am	CRC2026-D-25-00881	Pose Estimation for Ergonomic Risk Assessment in Steel Connection Tasks	Tolulope Oyeyipo, M.S.; Roy Lan, Ph.D.; Ibukun Awolusi, Ph.D.; Arturo Schultz, Ph.D.; Debra Laefer, Ph.D.; Salam Al-Sabah, Ph.D.
	8:30 am - 8:45 am	CRC2026-D-25-00882	An Analysis of Work Zone Safety Incidents and Preventive Measures in Southern California	Asif Rahman; Siddharth Banerjee, Ph.D.; Ghada M. Gad, Ph.D.
	8:45 am - 9:00 am	CRC2026-D-25-00687	Environmental and Temporal Factors Influencing Intrusion Risks in Work Zone Activity Areas	Naveem Hoque; Kaushik Bhattacharjee, Ph.D.; Umme Sabiha Onnesha; Chukwuma Nnaji, Ph.D.
	9:00 am - 9:15 am	CRC2026-D-25-00886	Enhancing Real-Time Decision Making for Heat Stress Prevention in Construction using Wearable Sensing Devices	Mehdi Torbat Esfahani, M.S.; Roy Lan, Ph.D.; Ibukun Awolusi, Ph.D.; Susan Taah, MEng.
10	9:15 am - 9:30 am	CRC2026-D-25-00894	A path towards creating health and safety monitoring Digital Twins using wearable sensor technology	AHMAD AL AYOUBI; Ashtarout Ammar, Ph.D.
	8:00 am - 8:15 am	CRC2026-D-25-00970	Building the Future: Educational Framework for Robotics in Industrialized Construction	Feral Foskett, MCM; Aladdin Alwisy, BA, MS, PhD; Dean Mucaj, MCM; Chao Xie, MCM
	8:15 am - 8:30 am	CRC2026-D-25-00250	From Country Roads to the Concrete Jungle: Public Workforce Resiliency Issues in Rural and Urban Areas	Kristal Metro, Ph.D. Candidate; Susan M Bogus; Christofer Harper
	8:30 am - 8:45 am	CRC2026-D-25-00273	Teaching in Isolation: Sentiment Analysis of a Civil Engineering BIM Course During the COVID-19 Online Semester	Muhammad Umer, PhD; Rizwan U. Farooqui, PhD
	8:45 am - 9:00 am	CRC2026-D-25-00494	An Online Collaborative Virtual Field Trip for Construction Techniques: Development and Usability Evaluation	Parth Bhadaniya; Ricardo Eiris, Ph.D.; Masoud Gheisari, Ph.D.
	9:00 am - 9:15 am	CRC2026-D-25-00497	AIStory: A Usability Study of a Storytelling-Based AI Literacy Module for Construction Students	Jiun-Yao Cheng, Ph.D.; Masoud Gheisari, Ph.D.; Idris Jeelani, Ph.D.
	9:15 am - 9:30 am	CRC2026-D-25-00531	Understanding Gender Bias in Construction: A Survey of Role Assignment, Safety Performance, and Wage Perceptions	Heather Danielle Stockman; Mostafa Namian, Ph.D.; Samuel Olatunbosun; Abdullah Alsharaf, Ph.D.

## CRC Podium Presentation Schedule (Tentative)

11	8:00 am - 8:15 am	CRC2026-D-25-00508	Differences in SIF Risk Perceptions among Construction Experts.	Frank Milebasua Benin, MSc.; Siddharth Bhandari, Ph.D; Matthew Hallowell, Ph.D
	8:15 am - 8:30 am	CRC2026-D-25-00606	Silica Dust in Construction: Uncovering Common Myths and Misconceptions Among Workers	Samuel Olatunbosun; Mostafa Namian, Ph.D.; Mohammadsoroush Tafazzoli, Ph.D.; Amin Akhnoukh, Ph.D.
	8:30 am - 8:45 am	CRC2026-D-25-00607	Gender Differences in Construction Safety Performance: A Comparative Study of Jobsite Hazard Analysis and Perceived Risk	Mostafa Namian, Ph.D.; Samuel Olatunbosun; Zahra Ghorbani; Alex Albert, Ph.D.
	8:45 am - 9:00 am	CRC2026-D-25-00608	Enhancing Construction Worker Safety and Performance through Automated Vision-Based Monitoring Systems	Sudarshan Saikia; Sparsh Johari, PhD
	9:00 am - 9:15 am	CRC2026-D-25-00609	Evaluating the Impact of Warning Signals on Drivers' Attention and Reaction: A Driving Simulation Study of Flagging Technologies	Wei Zhou, PhD Student; Jing Zhang; Chia-Ling Liu; Elizabeth Saunders; Brandon Pitts, PhD; Behzad Esmaeili, PhD; Sogand Hasanzadeh, PhD
	9:15 am - 9:30 am	CRC2026-D-25-00610	Intervention and Prevention Strategies of Burnout for Enhancing the Well-being of Young Construction Professionals	Haiyan Sally Xie, Ph.D.; Nolan McMillan; Runjia Mao
12	8:00 am - 8:15 am	CRC2026-D-25-00561	Role of User Feedback in Highway Infrastructure Management: Focus on Performance, Sustainability and Resilience in Mountainous Road	Uttam Neupane, Ph.D. Student; Chirag Kothari, Ph.D.
	8:15 am - 8:30 am	CRC2026-D-25-00563	Automated building energy retrofit optimization: application to a dormitory building	Yilin Cai, M.E.; Ashrant Aryal, Ph.D.
	8:30 am - 8:45 am	CRC2026-D-25-00564	Evaluating the Perceived Importance of Integrated Asset Management Practices in Improving Performance Outcomes for Municipal Maintenance, Rehabilitation, and Reconstruction Projects	Anil Kumar Bhatta, Ph.D. Candidate; Yongwei Shan, Ph.D., P.E., M. ASCE
	8:45 am - 9:00 am	CRC2026-D-25-00565	A Methodology for Sustainable Management of Construction Equipment Fleets: Estimating Emissions and Enhancing Environmental Performance	Jorge Rueda-Benavides; Mohamed Khalafalla, Ph.D.; Douglas D. Gransberg, Ph.D.; Abdallah Alsammani, Ph.D.
	9:00 am - 9:15 am	CRC2026-D-25-00568	Trust in Tap Water Among Alaska Native Communities: A Case Study of a Community within the Norton Sound Region.	Caleb Mawuena Fiakpui, Bsc.; Cristina Poleacovschi, Ph.D.
	9:15 am - 9:30 am	CRC2026-D-25-00569	Triple Bottom Line Impacts of Arctic Infrastructure Construction: Insights from Nome, Alaska	Haniye Safarpour, Ph.D.; Lesly Rodriguez; Ana Lacau; Leif Albertson; Kasey M. Faust; Lauryn A. Spearing
13	8:00 am - 8:15 am	CRC2026-D-25-00865	Comparative Evaluation of Heat Stress Prevention Training on Knowledge Improvement in Current and Future Construction Workforce	Mehdi Torbat Esfahani, M.S.; Ibukun Awolusi, Ph.D.; Yilmaz Hatipkarasulu, Ph.D.
	8:15 am - 8:30 am	CRC2026-D-25-00866	LEGO Cobot: The Design of An Affordable Research and Teaching Platform to Foster Next Generation Construction Students Skills in Artificial Intelligence and Robotics	Sisi Han, Ph.D.; Yuhan Jiang, Ph.D.; Andrea Spool-White, M.S.
	8:30 am - 8:45 am	CRC2026-D-25-00214	Construction Workforce Talent a Case Study of Non-Cognitive Factors on Sense of Belonging	Tulio Sulbaran, Ph.D.; Jared Burgoon; Olugbenro Ogunrinde; Rachel Mosier
	8:45 am - 9:00 am	CRC2026-D-25-00869	Essential Hands-On Skills for Construction Management Students: Insights from Industry Professionals in Mississippi	Mohsen Foroughi Sabzevar, Ph.D.; Masoud Gheisari, Ph.D.
	9:00 am - 9:15 am	CRC2026-D-25-00957	Feasibility Assessment of a 360-Degree Virtual Reality Storytelling for Safety Communication Among Small Construction Employers	Faraz Khojasteh Far; Jingyuan Shen; Jing Wen, PhD
	9:15 am - 9:30 am	CRC2026-D-25-00711	Assessing the Efficacy of Visual Programming in Developing Machine Learning Skills among the Construction Engineering Students	Mohammad Khalid, Ph.D.; Abiola Adegoke; Abiola Akanmu, Ph.D.; Homero Murzi, Ph.D.; Ibukun Awolusi, Ph.D.

## CRC Podium Presentation Schedule (Tentative)

March 20, 10:00 - 11:00am				
Stream	PaperID	Title	Authors	
5	10:00 am - 10:15 am	CRC2026-D-25-00955	Autonomous UAV-Based Framework for Detection and Severity Assessment of Hurricane-Damaged Power Poles	Sujan Gyawali; Daisy Mouka; Mahmoud Habibnezhad, PhD
	10:15 am - 10:30 am	CRC2026-D-25-00333	EgoVision: Generate Egocentric Images on Construction Sites using Diffusion Model	Jiuyi Xu; Meida Chen; Yangming Shi, Ph.D.
	10:30 am - 10:45 am	CRC2026-D-25-00344	Complex Building Code Interpretation Using Knowledge Graph-Based Large Language Models	Fan Yang; Jiansong Zhang, Ph.D.
	10:45 am - 11:00 am	CRC2026-D-25-00345	T-CLAIM: A Confidence-Based Method for Integrating and Assigning Crowdsourced Labels in Construction Tabular Data	SeyedeZahra Golazad, M.Sc.; Abbas Rashidi, Ph.D.
6	10:00 am - 10:15 am	CRC2026-D-25-00285	AI-Assisted Autonomous Quadraped Mobile Robotic System Integrated with Thermal and Environmental Sensing for Real-Time Fire Hazard Detection and Mitigation in Construction and Facility Safety Management	Oscar Poudel; Rayan Assaad, Ph.D.; Mohamad Awada
	10:15 am - 10:30 am	CRC2026-D-25-00504	Reinforcement Learning-Based Motion Planning for Mobile Crane Operation in Precast Concrete Bridge Installation	Mohsen Navazani; Ao Du, Ph.D.; Shuai Li, Ph.D.; Jiannan Cai, Ph.D.
	10:30 am - 10:45 am	CRC2026-D-25-00274	Benchmarking Humanoid Robot Controllers for Contact-Rich Construction Tasks	Tianyu Ren; Yuming Zhang; Yizhi Liu; Houtan Jebelli, Ph.D.
	10:45 am - 11:00 am	CRC2026-D-25-00577	A Hybrid Approach to Cutting-in Painting: Human Skills Meet Robotic Precision	Sage Schaefer; Jia Xu; Xi Wang, Ph.D.
7	10:00 am - 10:15 am	CRC2026-D-25-00018	Numerical Modeling of Argon Concentration in Insulating Glass Units Using Ultrasonic Wave Propagation through the Finite Element Method	Parisa Salehi, Ph.D. Student; Hamed Khaleghi, Ph.D. Student; Didem Ozevin, Professor; Aslihan Karatas, Assistant Professor
	10:15 am - 10:30 am	CRC2026-D-25-00721	As-Built Digital Twins: AI-Enhanced, Semantic-Rich Building Models for Energy Simulation and Retrofit Analysis	Ahmad Gholizadeh Lonbar, Ph.D.; Kaiwen Chen
	10:30 am - 10:45 am	CRC2026-D-25-00024	Influence of Modular Unit Stacking Method on Differential Settlement of Raft Foundations: A Numerical Study	Mahya Nazarisharabian, Master's student; Jin Ouk Choi, Ph.D. Associate Professor
	10:45 am - 11:00 am	CRC2026-D-25-00025	High-Rise Morphological Design in Dense Urban Contexts: A Parametric Modeling and Evolutionary Optimization Approach	Ali Jezzini; Yasser Jezzini, Ph.D.; Mohsen Mohammadi, Ph.D.; Philippe Marin, Ph.D.
8	10:00 am - 10:15 am	CRC2026-D-25-00067	Evaluating Progressive Design-Build Trends and Satisfaction in the US Construction Industry	Malek Alazzam; Amelia Celozza, Ph.D.; Keith R. Molenaar, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00068	Development of an Intelligent Information-Processing-Based Framework for Issue-Oriented Document Linking in Construction Projects	Jihyun Kim, M.S. Student; Wonkyoung Seo, Assistant Professor
	10:30 am - 10:45 am	CRC2026-D-25-00070	A Fuzzy Bayesian Hybrid Approach to Project Delivery Method Selection in Highway Construction	Phuong H.D. Nguyen, Ph.D.; Daniel Tran, Ph.D., P.E.; Brian C. Lines, Ph.D., P.E.
	10:45 am - 11:00 am	CRC2026-D-25-00072	Understanding Disputes in U.S. Nuclear Power Plant Construction Projects: Common Causes and Their Interconnections	Mahmoud S. Mansour; Islam H. El-adaway, Ph.D.; Islam H. El-adaway2
9	10:00 am - 10:15 am	CRC2026-D-25-00108	Monte Carlo Simulation for Risk-Based Cost and Schedule Estimation in Commercial Construction	Hooman Sadeh, Ph.D.; Jackson Blanchard; Mohammadoroush Tafazzoli, PhD; Dimitar Todorov, Ph.D., P.E.
	10:15 am - 10:30 am	CRC2026-D-25-00114	Estimating the Influence of Economic Cycles on Construction Labor Shortages	Ahmed Shiha; Islam H. El-adaway, Ph.D.; Islam H. El-adaway2
	10:30 am - 10:45 am	CRC2026-D-25-00526	Preliminary Resilience Index for Construction Schedules: A Data-Driven Pattern Analysis Approach	Ismail Foda; Bahaa Khalli; Mohamed S. Eid, Ph.D; Ahmed Elhakeem
	10:45 am - 11:00 am	CRC2026-D-25-00680	Assessing the Risk of Irregularly Shaped Buildings based on Analytic Hierarchy Process by Using Generative AI	Moobin Kim, B.S.; Youngcheol Kang, Ph.D.; Hyeonju Wang
10	10:00 am - 10:15 am	CRC2026-D-25-00216	AI-Driven Interactive Storytelling for AEC Education: A Twine-Based Framework	Faizan Shafique, PhD
	10:15 am - 10:30 am	CRC2026-D-25-00222	Ten Years of Construction Education: Tracking Growth, Trends, and Opportunities across U.S. Construction Programs	Ebrahim Karan, Ph.D.; Sadegh Asgari, Ph.D.; Farzane Asgari; Sara Asgari
	10:30 am - 10:45 am	CRC2026-D-25-00226	Enhancing Transportation Construction Plan Reading through BIM: A Pilot Study	Ri Na, Ph.D.; Ryan Webber; Dyala Ajagoub; Xi Wang; Tianjiao Zhao
	10:45 am - 11:00 am	CRC2026-D-25-00227	Information technologies in construction engineering and management education to improve visualization and communication	Amelia Celozza, Ph.D.; Christopher Rausch, Ph.D.; Bing Han, Ph.D.
11	10:00 am - 10:15 am	CRC2026-D-25-00183	Leveraging LLM-as-a-Judge for Automatic Evaluation in Construction Safety	Wenlin Li; Zhenhui Ou; Siyuan Song, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00154	Relationship Between Attention and Recognition Accuracy for Construction Signs: An Eye-Tracking Study	Minghao Dong; Behzad Esmaeili, Ph.D.; Chiu Yu-Chin
	10:30 am - 10:45 am	CRC2026-D-25-00156	A Wellness Index for Construction Manufacturing Workers: Development and Pilot Evaluation	Sena Assaf; Marco Alex Leon Huaman; Mohamed Assaf; Ahmed Bouferguene, Ph.D.; Mohamed Al-Hussein, Ph.D., P.Eng.
	10:45 am - 11:00 am	CRC2026-D-25-00159	Evaluating Construction Safety Resilience through Pre-Armor Strategies: Industry Professionals Perspective	Omar Kartam, MEng; John Gambatese, Ph.D.; Mohammed Azeez, Ph.D.
12	10:00 am - 10:15 am	CRC2026-D-25-00489	Natural Disaster Cost Implications on the Construction Supply Chain: A Pilot Study on Hurricane Ida's Impact on New Orleans's Building Cost Index	Jordyn Golden, B.A.; Gabriel Castelblanco, PhD
	10:15 am - 10:30 am	CRC2026-D-25-00443	Building Sustainability: Developing an SDG Index for the AEC Industry	Mohammed Alsharqawi, Ph.D.
	10:30 am - 11:45 am	CRC2026-D-25-00445	Inventory-aware Parametric Design Framework for Material Reuse in Deeply Affordable Prefabricated Housing	Nirjara Bongurala, MS; Alberto E Pozzer; Jeehoon Kim; Christopher Rausch
	10:45 am - 11:00 am	CRC2026-D-25-00560	Development of a Performance, Sustainability and Resilience(PSR) Based Decision-making approach for Mountainous Road Infrastructure in Nepal	Uttam Neupane, Ph.D. Student; Chirag Kothari, Ph.D.
13	10:00 am - 10:15 am	CRC2026-D-25-00661	AI-Driven Transformer-based Trajectory Prediction Model to Support Worker Monitoring in Work Zone Digital Twins	Woei-Chyi Chang, PhD; Nathan Daniel Weston; Sogand Hasanzadeh, PhD
	10:15 am - 10:30 am	CRC2026-D-25-00757	Physical Fatigue Monitoring of Construction Workers Using Edge-Based Machine Learning and Wearable Sensors	Sharjeel Anjum, enrolled in Phd; Chukwuma Nnaji, Phd; Ashrant Aryal, Phd; Arnia Goode
	10:30 am - 10:45 am	CRC2026-D-25-00759	Air Quality Prediction of 3D-Printed House Using Long Short-Term Memory and Large Language Models	Sadegh Haghighat; Min Jae Lee, M.S.; Ruichuan Zhang, Ph.D.; Hooman Sadeh, Ph.D.; Ashtarout Ammar, Ph.D.; Andrew McCoy, Ph.D.; Xinghua Gao, Ph.D.; Phillip Agee, Ph.D.
	10:45 am - 11:00 am	CRC2026-D-25-00761	Advancing AI-Driven Near-Miss Detection: A YOLOv8-YOLOv12 Evaluation Framework for Construction Safety	Ammar Alzarrad, Ph.D.; Shahid Ali; Sudipta Chowdhury, Ph.D.; Husnu S Narman, Ph.D.; Shifa Saleem Ahmed Khan

## CRC Podium Presentation Schedule (Tentative)

March 20, 11:15 am - 12:15 pm

Stream	PaperID	Title	Authors	
5	11:15 am - 11:30 am	CRC2026-D-25-00347	Exploring Semantic Compression in Transformer-Based Safety Intelligence	Unmesa Ray, Ph.D. Candidate; JeeWoong Park, Ph.D.; Malak Mahdy
	11:30 am - 11:45 am	CRC2026-D-25-00351	Estimating Highway Rehabilitation Projects Using Machine Learning	Samantha Ocaña; Silvia Flores-Osuna; Gasser G. Ali, Ph.D.; Constantine Tarawneh, Ph.D.
	11:45 am - 12:00 pm	CRC2026-D-25-00352	Investigating Switchgear Delays in Electrical Construction using AI Text Mining	Alexis Figueroa-Baltazar, B.S.; Anh D. Chau, Ph.D.; Raissa Seichi Marchiori, Ph.D.
	12:00 pm - 12:15 pm	CRC2026-D-25-00354	Cross-City Transfer Learning Framework for Sewer Pipe Deterioration Prediction with Limited Data	Sihan Zhou, Master of Science in Civil Engineering; Dulcy M. Abraham, Ph.D.; Tom Iseley, Ph.D., P.E.; M.ASCE;2; Ph.D. P.E.; Dist.M.ASCE3
6	11:15 am - 11:30 am	CRC2026-D-25-00296	Design of a Sensory-Enhanced Workstation Prototype with a Multimodal Interface for Teleoperated Demolition	Zihao Wang; Patrick Borges Rodrigues; Yiyang Fang; Lucio Soibelman; Burcin Becerik-Gerber; Gale M. Lucas; Shawn C. Roll
	11:30 am - 11:45 am	CRC2026-D-25-00288	LIDAR-Driven Framework for Safety Monitoring of Construction Sites	Chao He; Da Hu, Ph.D.
	11:45 am - 12:00 pm	CRC2026-D-25-00506	Human Factors in Teleoperation for Construction: An Ergonomic Perspective	Usman Rasheed; Xiaoyun Liang; Yuqing Hu, Ph.D.; Scarlett Miller, Ph.D.; Shuai Li, Ph.D.; Jiannan Cai, Ph.D.
	12:00 pm - 12:15 pm	CRC2026-D-25-00304	Integrating Physiological Monitoring Systems and Artificial Intelligence for Human Robot Interaction in Construction: A Systematic Literature Review	Didong Xu, M.Sc.; Nana Kwabena Asamoah Antwi, M.Sc.; Gilles Albeaino, Ph.D.
7	11:15 am - 11:30 am	CRC2026-D-25-00014	A Preliminary Study on the Quantitative Effects of Visual Interfaces on Excavator Teleoperation Performance	ChungBae Yoon; SangUk Han, Ph.D.
	11:30 am - 11:45 am	CRC2026-D-25-00029	Tracing the Footprint of Urbanization on River Water Quality Across the US	Daniela Correa Caselles; Gabriel Castelblanco, PhD
	11:45 am - 12:00 pm	CRC2026-D-25-00031	A Conceptual Framework of Building Digital Twins for Autonomous Robot Control: A Facility Management Use Case	Ping Xu; Xinghua Gao, Ph.D.
	12:00 pm - 12:15 pm	CRC2026-D-25-00032	Deep learning-based Concrete Bughole Detection and Area Estimation for Quality Assurance and Control	Tianru Zhao; Sandra Anto Vazhappilly; Jinwoong Lee; Kyubyung Kang
8	11:15 am - 11:30 am	CRC2026-D-25-00785	Comparative Analysis of Time Sensitivity Indices for Construction Schedule Risk Analysis	Amarani Salazar; Mohamed AbdelRaheem, PhD
	11:30 am - 11:45 am	CRC2026-D-25-00077	Evaluating the Effects of Project Bundling on Public-Private Partnerships Procurement.	Gaurav Khadka; Yunping Liang
	11:45 am - 12:00 pm	CRC2026-D-25-00059	Exploratory Study of Procurement and Payment Methods of Design-Build Educational Buildings	Suraj Balaji Waghdarikar, BSCE; Pramen Shrestha, Ph.D.
	12:00 pm - 12:15 pm	CRC2026-D-25-00061	Comparing Cost and Time Performance of Design-Build Projects across Construction Sectors, Contract and Procurement Methods in the US Northeast States	Bishal Poudel; Vassiliki Demetrapoulou, PhD
9	11:15 am - 11:30 am	CRC2026-D-25-00117	Uncovering Direct and Indirect Bridge Failure Causes: A Comprehensive Analytical Framework	Youssef Lotfy; Ahmed Shiha; Islam H. El-adaway, Ph.D.; Jeffrey S. Russell; Islam H. El-adaway3
	11:30 am - 11:45 am	CRC2026-D-25-00824	Congestion Relief Through a Win-win Strategy: A Study of LA Metro	Lily Chavez; Rajnish Lekhi, DBA; Paolo Madrigal; Archaela Tadiosa; Karthik Sai; Deepak Sharma, PhD
	11:45 am - 12:00 pm	CRC2026-D-25-00677	A Collaborative Risk-Based Methodology for Cost Contingency Estimation in Construction Projects	In Bae Chung; Sang Lee; Carlos H. Caldas, Ph.D.
	12:00 pm - 12:15 pm	CRC2026-D-25-00124	Integrating Lean Principles into Coordination Drawings Process Using Value Stream Mapping (VSM)	Rose Parvaneh, PhD Candidate; Mai Ghazal; Farook Hamzeh; Ahmed Hamad
10	11:15 am - 11:30 am	CRC2026-D-25-00228	Competition-Based Learning: Integrating National Student Competitions to Enhance Project-Based Construction Management Education	Mohsen Garshasby, PhD; Saeed Rokooei; Mohsen Goodarzi; Rizwan Farooqui
	11:30 am - 11:45 am	CRC2026-D-25-00229	Integrating Safety Culture into architecture, engineering, and construction (AEC) Curricula: Barriers, Drivers, and Strategies	Jaykumar Maheshbhai Mistry, M.S.; Zia Ud Din, Ph.D.; George Edward Gibson, Ph.D.
	11:45 am - 12:00 pm	CRC2026-D-25-00232	Hydrogen Fuel Cell Electric Vehicle Workforce Development in Public Transit: A Literature Review	Jaskaran Preeth Singh; Manideep Tummalapudi, Ph.D.; Shantanu Kumar, Ph.D.; Vijayeta Malla; Tanvi Tayal
	12:00 pm - 12:15 pm	CRC2026-D-25-00233	Research About Research: Use of Focus Group Sessions as a Methodological Approach to Utility Investigation Studies	Cecilia Adebisoye Anakor; Haidy Ghali; Sudip Acharya; Jennifer Shane, Ph.D.; Roy Sturgill, Ph.D.; Chris Harper, Ph.D.; Dan Tran, Ph.D.
11	11:15 am - 11:30 am	CRC2026-D-25-00163	Impacts of Air Pollution on Construction Workers Situational Awareness and Cognitive Performance	Shangyi Lei; Suliman Rashid; Nahid Abbasian; Shiva Pooladvand, Ph.D.; Elham Fini, Ph.D.
	11:30 am - 11:45 am	CRC2026-D-25-00617	Systematic Review of Literature on Safety Risks in Off-site Construction	Qichang Dai; John Gambatese, Ph.D., P.E.
	11:45 am - 12:00 pm	CRC2026-D-25-00777	Effectiveness of Work Zone Intrusion Technologies: Insights from Stakeholder Perceptions	Kaushik Bhattacharjee, Ph.D.; Vineeth Dharmapalan, Ph.D.; Joseph Louis, Ph.D.; Chukwuma Nnaji, Ph.D.; John Gambatese, Ph.D.
	12:00 pm - 12:15 pm	CRC2026-D-25-00168	Enhancing Construction Safety: The Role of AI and Robotics in Risk Mitigation	Sanjeev Adhikari, Ph.D.; Sebastian Archer
12	11:15 am - 11:30 am	CRC2026-D-25-00460	Advancing Disaster Response: An Approach to Mitigate Delays in Resource Management	Yan Liu, PhD Candidate; Luis Ceferino; Yongkui Li
	11:30 am - 11:45 am	CRC2026-D-25-00463	Traffic Disruption from Flooding: The Role of Sociodemographics and Trip Purpose	Francisco Contreras; Cristina Torres-Machi, Ph.D.
	11:45 am - 12:00 pm	CRC2026-D-25-00488	Climate Risks in Construction: Comparing Contractors 2023 and 2024 SEC 10-K Filings	Jessica Kaminsky, Ph.D.
	12:00 pm - 12:15 pm	CRC2026-D-25-00470	Water quality evolution and relationship with the Built Environment	Daniela Correa Caselles; Gabriel Castelblanco
13	11:15 am - 11:30 am	CRC2026-D-25-00767	Artificial Intelligence and Fraudulent Practice in AEC: A Scoping Review of Cross-Sector Lessons and Opportunities	Sushmit Sharma Bhattarai, MS; Sabin Bhandari; Bongjun Ji, P.hD.; Hyunhwan Kim, P.hD.
	11:30 am - 11:45 am	CRC2026-D-25-00320	Agentic AI for Autonomous Construction Issue Detection: A Multimodal Framework Using Model Context Protocol	Simgje Girgin Kocabagli, PhD; Fopefoluwa Bademosi, PhD; Parastoo Varshosaz, Master of Architecture; Damon Lau, Master of Architecture
	11:45 am - 12:00 pm	CRC2026-D-25-00770	Automatic Classification of Construction Accident Reports Using Text Mining and Machine Learning	Zhenhui Ou; Peiyi Lyu, Ph.D.; Siyuan Song, Ph.D.
	12:00 pm - 12:15 pm	CRC2026-D-25-00776	Translating Perceptions into Action: Vision-Language and TrueSkill Integration for Urban Livability Mapping	Mirsalar Kamari, Ph.D.; Mahdi Ghafouri, Ph.D.; Mohammadsoroush Tafazzoli, Ph.D.

## CRC Podium Presentation Schedule (Tentative)

March 20, 2:00 pm – 3:00 pm				
Stream	PaperID	Title	Authors	
5	2:00 pm - 2:15 pm	CRC2026-D-25-00395	EEG-Based Mental Fatigue Assessment During Exoskeleton-Assisted Construction Postures: A GAN-Augmented Approach	Jeniya Sultana, M.S.; Adeeba Abdul Raheem, Ph.D.; Jaeheo Jang, Ph.D.; Jin sol Lee, Ph.D.; Yoojun Kim, Ph.D.; Jinwoo Kim, Ph.D.; Jaeyoon Kim, Ph.D.
	2:15 pm - 2:30 pm	CRC2026-D-25-00397	Guardrail Detection in Rural Roads Using Zero- and Few-Shot Learning with Vision Language Models	Maede Sadeghi; Ali Mansouri; Abdolmajid Erfani, PhD
	2:30 pm - 2:45 pm	CRC2026-D-25-00399	Risk-Aware Building Control: A Probabilistic Forecasting Framework Using Quantile Patch Transformers	Mohammad Saleh Nikoopayan Tak; Andy Ghosh; Faith Leverett; Reyhaneh Moazami Goodarzi; Yanxiao Feng, Ph.D.
	2:45 pm - 3:00 pm	CRC2026-D-25-00401	Applications and Challenges of Generative AI in AEC	Rohantha Rukshan Jayasinghe; Ali Katooziani; Gabriel Castelblanco, PhD; Masoud Gheisari, PhD; Idris Jeelani, PhD
6	2:00 pm - 2:15 pm	CRC2026-D-25-00584	Automated BIM-to-Reality Alignment in Indoor AR Using Instance Segmentation and Reinforcement Learning	Srijeet Halder, Ph.D.; Aritra Pal, Ph.D.; Deepika Adalarasu; Sanjeev Adhikari, Ph.D.
	2:15 pm - 2:30 pm	CRC2026-D-25-00276	Humanoid Robot Learning of Contact-Rich Manipulation Skills through Retargeted Construction Demonstrations	Tianyu Ren; Houtan Jebelli, Ph.D.
	2:30 pm - 2:45 pm	CRC2026-D-25-00590	Privacy-Preserving Stress-Aware Physiological Model for Adaptive Worker-Drone Interaction	Wei Zhou; Woei-Chyi Chang, Ph.D.; Sogand Hasanazadeh, PhD
	2:45 pm - 3:00 pm	CRC2026-D-25-00299	BIM Semantics-Enhanced Pose Initialization for Indoor Mobile Construction Robots	Chuan Yang; Yujie Lu, Ph.D.
7	2:00 pm - 2:15 pm	CRC2026-D-25-00396	Challenges at the Design-Construction Interface in Building Projects and the Emerging Role of the Digital Twin	Muhammad Kamran; Amr Ashmawi; Phuong H.D. Nguyen, Ph.D.
	2:15 pm - 2:30 pm	CRC2026-D-25-00398	Multimodal Retrieval Augmented Generation for Information-Enriched Digital Twins: Automating Information Extraction and Mapping in a University Central Utility Plant	Chan Young Park, Ph.D.; Rafay Ali; H. David Jeong, Ph.D.; Ashrant Aryal, Ph.D.; Ghang Lee
	2:30 pm - 2:45 pm	CRC2026-D-25-00419	Point Cloud-Based Debris Volume Estimation for Urban Demolition: A Case Study at Tumwata Village, Oregon City, Oregon	Chonnapat Opanasopit, Ph.D. Student; Joseph Louis, Ph.D.; Erzhuo Che, Ph.D.; David Abiola, Ph.D. Student
	2:45 pm - 3:00 pm	CRC2026-D-25-00523	A Building Digital Twin Framework Enhancing Occupant Environmental Awareness and Engagement	Qipeng Liu; Rui Liu, Doctor of Philosophy
8	2:00 pm - 2:15 pm	CRC2026-D-25-00702	Artificial Intelligence and the Construction Workforce: A Framework for Assessing Automation Potential and Future Skill Needs	Sungwoo Kim; Vineeth Dharmapalan, Ph.D.; Ziyu Jin, Ph.D.; John Gambatese, PhD
	2:15 pm - 2:30 pm	CRC2026-D-25-00259	A Repeated-Cross Sectional Study of Construction Faculty Research Requirements	Tulio Sulbaran, Ph.D.; Rachel Mosier; Olugbenro Ogunrinde
	2:30 pm - 2:45 pm	CRC2026-D-25-00903	NLP-based Content Analysis of Digital Delivery Practices across the Department of Transportation	SeungYeon Lee, Ph.D. Student; Baabak Ashuri
	2:45 pm - 3:00 pm	CRC2026-D-25-00946	Sensor-based Framework for Proximity Monitoring of Heavy Rigging Operations	Yeji Hong, M.S.; Dulcy M. Abraham, Ph.D.; Hubo Cai, Ph.D.
9	2:00 pm - 2:15 pm	CRC2026-D-25-00948	Key Parameters and Indicators for Flow Planning, Implementation, and Support in Construction: Probing from Lean Manufacturing and Takt Perspectives	Muhammad Amir Hamza Khan; Robert M. Leicht, Ph.D.
	2:15 pm - 2:30 pm	CRC2026-D-25-00853	Sensing Technologies for Construction Quality Management: A Systematic Literature Review	Amanda Betancourt; Ibukun Awolusi, Ph.D.; Tulio Sulbaran, Ph.D.
	2:30 pm - 2:45 pm	CRC2026-D-25-00854	Critical Factors Impacting Lunar Launch Pad Construction Schedule and Energy Use	Chinedu Okonkwo, Ph.D.; Ibukun Awolusi, Ph.D.; Kiran Bhaganagar, Ph.D.; Sazzad Bin-Shafique, Ph.D., P.E.; Sam Ximenes; Joe Redfield, P.E.; Tomasz Adach, P.E.
	2:45 pm - 3:00 pm	CRC2026-D-25-00855	Bridging the Gap Between Strategy and Execution: Integrating the Operating Result Methodology with Earned Value for Enhanced Project Controls	Ruben Martin Bazalar, M.Sc.
10	2:00 pm - 2:15 pm	CRC2026-D-25-00253	Reframing Workforce Retention in the Rural Wastewater Sector: A Contextualized PLS-SEM Framework	Michel Kordahi, BE, S.M.ASCE; Amal Bakchan, Ph.D., A.M.ASCE
	2:15 pm - 2:30 pm	CRC2026-D-25-00257	Integrating Technology and Traditional Approach to Enhance Construction Students' Skills and Competency: A Case Study from Two Institutions	Olugbenro Ogunrinde, Ph.D.; Tulio Sulbaran; Rachel Mosier; Jareed Burgoon
	2:30 pm - 2:45 pm	CRC2026-D-25-00707	Resilient Construction Contractor Capacity for a Competitive Advantage in Developing Economies: Consultant and Client Perspective	Richard John Ndhlovu, Ph.D.; Innocent Musonda, Professor; Nelson Sizwe Madonsela; Adetayo Onososen
	2:45 pm - 3:00 pm	CRC2026-D-25-00263	Construction Industry Adoption of Emerging Technologies and Assessment of Graduate Readiness	Saeed Rokooei, Ph.D.; Rizwan Farooqui, Ph.D.
11	2:00 pm - 2:15 pm	CRC2026-D-25-00194	Exploring Human-Drone Communication in Real-World Indoor Construction Environments	Zixian Zhu; Ajit Devkota; Idris Jeelani; Masoud Gheisari
	2:15 pm - 2:30 pm	CRC2026-D-25-00195	Learning Outcomes and Experiences with AI-Generated Construction Safety Podcasts	Farouq Sammour, MSc; Yiyang Shu, MSc; Mo Hu, PhD; Xi Wang, PhD; Zhenyu Zhang, PhD
	2:30 pm - 2:45 pm	CRC2026-D-25-00197	Thermal Ergonomics in Occupational Settings: Challenges, Technologies, and Human-Centered Solutions	Zijian Zhu; Wei Yin; Yanxiao Feng, Ph.D.
	2:45 pm - 3:00 pm	CRC2026-D-25-00198	Company Management Awareness Level to Improve Construction Workers Mental Health and Well-being	Md Tauhidul Karim; Shafayet Ahmed, Ph.D.; Md Nayeem Hoque
12	2:00 pm - 2:15 pm	CRC2026-D-25-00485	Strength, Cost, and Sustainability: A Comparative Study of Traditional and Recycled Waste Concrete	Ratan Lal; Hasnain Saifullah, MS; Ijaz Ahmed, MS; Muhammad Tariq Bashir, Ph.D
	2:15 pm - 2:30 pm	CRC2026-D-25-00502	Evaluating the Long-Term Thermal Stability of Vacuum Insulation Panels via Accelerated Environmental Conditioning	Ebenezer Fanjo, PhD; Mohammad Zunaied Bin Harun; Jian Liu, PhD
	2:30 pm - 2:45 pm	CRC2026-D-25-00509	AI-driven Semantic Knowledge Graph Modeling for Cross-Jurisdiction Nuclear Regulatory Review	Kahyun Jeon, Ph.D.; Seongeun Park; Larkin E Jr Ison; Pingbo Tang, Ph.D.
	2:45 pm - 3:00 pm	CRC2026-D-25-00515	FACTORS AFFECTING POST-HURRICANE ELECTRIC POWER RESTORATION IN RURAL COMMUNITIES: A CASE STUDY ON HURRICANE HELENE	Mark Nartey Abuanor, MS.; Kalyan R. Piratla, Ph.D.; Chao Fan, Ph.D.
13	2:00 pm - 2:15 pm	CRC2026-D-25-00698	Task- and Site-Specific Ergonomics Intervention in Construction Applying Scene-Aware Motion Synthesis	Leyang Wen; Gunwoo Yong; SangHyun Lee, Ph.D.
	2:15 pm - 2:30 pm	CRC2026-D-25-00764	Automated Physical Demand Analysis using Artificial Intelligence	Chao Fan, Ph.D. Candidate; Qipei Mei, Ph.D.; Xinming Li, Ph.D.
	2:30 pm - 2:45 pm	CRC2026-D-25-00166	Integrating VR and BIM into Job Hazard Analysis to Improve Task Understanding and Safety in Construction	Anirudva Bhowmik, M.S.; Zia Ud Din, Ph.D.; Lu Gao, Ph.D.; Kinam Kim, Ph.D.; Ahmed Senouci, Ph.D.; Namho Cho, Ph.D.
	2:45 pm - 3:00 pm	CRC2026-D-25-00841	A Pilot Study on Temporal Variation in Construction Workers Hazard Recognition	Muhammad Talha Nadeem; Muhammad Khan; Mostafa Namian; Chukwuma Nnaji

## CRC Podium Presentation Schedule (Tentative)

March 20, 3:15 pm - 4:15 pm				
Stream	PaperID	Title	Authors	
5	3:15 pm - 3:30 pm	CRC2026-D-25-00981	Key Factors for Effective AI Implementation in Construction Cost Optimization: A Literature-Based Study	Zhili Gao, Ph.D.; Asad Sultan; Mijia Yang, Ph.D., P.E.
	3:30 pm - 3:45 pm	CRC2026-D-25-00364	Safety Rule Extraction in Human-Robot Collaboration via Prompt-Driven Large Language Models	Lirong Quan, Ph.D.; Guofeng Ma
	3:45 pm - 4:00 pm	CRC2026-D-25-00365	Enhanced Construction Safety Inspection Framework: Combining Image-Based Analysis with Regulatory Knowledge	Na Wang; Yujie Lu, Ph.D.; Xuanjun Li; Ziyu Chen; Hanli Wang
	4:00 pm - 4:15 pm	CRC2026-D-25-00367	AI-Augmented Cost Estimation in Highway Projects: A Proof-of-Concept for State DOTs	Qadri Hafez Shaheen, Ph.D. candidate; Huan Zhou, Ph.D. student; Qingbin Cui, Ph.D.
6	3:15 pm - 3:30 pm	CRC2026-D-25-00308	Automated Floor Flatness and Levelness Measurement Framework Using a LiDAR-Equipped Mobile Robot	Jiheon Kim; Mingeon Kim; Taewan Kim; Seulbi Lee, Ph.D.
	3:30 pm - 3:45 pm	CRC2026-D-25-00310	Sensory-Augmented Teleoperation for Humanoid Robots in Construction: A Risk-Aware Multimodal Approach	Yuming Zhang; Tianyu Ren; Yizhi Liu, Ph.D.; Houtan Jebelli, Ph.D.
	3:45 pm - 4:00 pm	CRC2026-D-25-00966	Vision-Guided Real-Time Monitoring and Adaptive Control for Defect Mitigation in Concrete 3D Printing	Seyedali Mirmotalabi, MS., S.M.ASCE; Hyosoo Moon, Ph.D., M.ASCE; Raymond Tesiero; Sadia Jahan Noor, MS.
	4:00 pm - 4:15 pm	CRC2026-D-25-00313	Robotic Inspection and Maintenance of Energy Infrastructure: A Review	Xin Wang, Ph.D.; Naveen Kumar Muthumanickam; Shanti Pless; David Mascarenas
7	3:15 pm - 3:30 pm	CRC2026-D-25-00762	Automated MEP Drawing Analysis Using Computer Vision Preprocessing and Vision Language Models	Rafay Hayat Ali, MSc; David Jeong, Ph.D; Ashrant Aryal, Ph.D.; Chan Young Park, Ph.D
	3:30 pm - 3:45 pm	CRC2026-D-25-00772	Towards Trustworthy Highway Infrastructure Digital Twins: A Regional Graph-Based Method for Section-Level Pavement Data Quality Assessment	Linjun Lu, Ph.D.; Yuandong Pan; Ya Wen; Ioannis Brilakis
	3:45 pm - 4:00 pm	CRC2026-D-25-00793	Quantifying the Economic Viability of Adoption of Exoskeleton Technology in Construction via Agent-Based Simulation	Maryam Soleymani, Ph.D. Student; Mahdi Bonyani, Ph.D. Student; Chao Wang, Ph.D.
	4:00 pm - 4:15 pm	CRC2026-D-25-00806	Advancing Graph-Based Hybrid Modularization for Integrated Decisions on Volumetric Modules and Panelized Walls	Sebastian Valencia Zapata; Heung Jin Oh, Ph.D.; Soowon Chang, Ph.D.
8	3:15 pm - 3:30 pm	CRC2026-D-25-00084	Exploratory Study on Factors Affecting Progressive Design-Build Transportation Project Performance	Camilla Brigolini Tavares, BSCE; Pramen Shrestha, Ph.D.
	3:30 pm - 3:45 pm	CRC2026-D-25-00086	Float Trading for Delay Prevention Using Bargaining Game Theory	Yomna Emad; Huu T. Hyunh; Gunnar Lucko; Mohamed S. Eid, Ph.D
	3:45 pm - 4:00 pm	CRC2026-D-25-00592	Understanding Subsurface Utility Engineering (SUE) Quality Levels for Highway Projects	Sudip Acharya; Haidy Ghali; Cecilia Adebisoye Anakor; Dan Tran, Ph.D.; Jennifer Shane, Ph.D.; Roy Sturgill, Ph.D.; Chris Harper, Ph.D.
	4:00 pm - 4:15 pm	CRC2026-D-25-00747	The Application and Impact of Integrated Digital Delivery (IDD) in the Construction Industry: A Case Study from Singapore	Xiao Liang; Foad Zahedi; Md Jewel Rana; Hongtao Dang, Ph.D.
9	3:15 pm - 3:30 pm	CRC2026-D-25-00097	Application of AWP in VDC Projects to Optimize Productivity in Construction	Jordan Antony Roman - Chavez, Student; Adrián Rafael Gutiérrez Álvarez; Saul Sangama Suazo
	3:30 pm - 3:45 pm	CRC2026-D-25-00127	Reviewing the Use of Price Adjustment Clauses in State DOT Highway Construction Contracts	Mohsen Naghdi; Abdolmajid Erfani, PhD; Georgene Geary, PhD; Baabak Ashuri, PhD
	3:45 pm - 4:00 pm	CRC2026-D-25-00116	Reassessing Risk-Sharing in Transportation: A Game Theory Study of Price Adjustment Clauses	Mariam Elazhary; Islam H. El-adaway, Ph.D.; Islam H. El-adaway2
	4:00 pm - 4:15 pm	CRC2026-D-25-00135	Streamlined Calculation of Shapley Value for Fair Incentives to Concurrent Activities	Raha Hajjashrafi, Ph.D.; Gunnar Lucko, Ph.D.; Jeffrey W. Herrmann, Ph.D.; Kiran R. Bhutani, Ph.D.; Mohamed Saeid Eid, Ph.D.
10	3:15 pm - 3:30 pm	CRC2026-D-25-00234	Similarities and Differences Between Augmented Reality and Virtual Reality in AECO Education: A Systematic Review of Literature	Lu -sa L. F. Guilherme, M.S. Student; S.M.ASCE,1; Steven K. Ayer, Ph.D.; A.M.ASCE,2; Amelia Celoza, Ph.D.; A.M.ASCE3
	3:30 pm - 3:45 pm	CRC2026-D-25-00235	Developing a Cybersecurity Education Framework to Prepare the Future Construction Workforce for Digital Resilience	Adedeji Afolabi, Ph.D.; Olugbenro Ogunrinde, Ph.D.
	3:45 pm - 4:00 pm	CRC2026-D-25-00540	Assessing Construction Students Readiness for Technology-Driven Sustainable Construction	Jingyuan Shen; Jing Wen; Sanjeev Adhikari; Ebenezer Fanijo
	4:00 pm - 4:15 pm	CRC2026-D-25-00241	Usability and Implementation Insights of Synchronous, Real-Time Drone-Based Virtual Field Trips in Construction Education	Ajit Devkota, M.Sc.; Ricardo Eiris, Ph.D.; Masoud Gheisari, Ph.D.
11	3:15 pm - 3:30 pm	CRC2026-D-25-00174	Multimodal Psychophysiological Analysis for Team Situation Awareness in Simulated Construction Environments	Ching-Yu Cheng, PhD student; Behzad Esmaeili; Liuchuan Yu, PhD student; Lap-Fai Yu
	3:30 pm - 3:45 pm	CRC2026-D-25-00175	Analyzing Factors Influencing Work Zone Crash Severity in Texas Across Different Weather Conditions	Chi Tian, Ph.D.; Jieyi Bao, Ph.D.; Rupini RV, Ph.D.
	3:45 pm - 4:00 pm	CRC2026-D-25-00176	An Assessment of Mental Health Programs in Construction Companies Across the United States	Evan Olszak; Shantanu Kumar, Ph.D.; Sherona Simpson, Ph.D. Candidate; Mohammed Hashem Mehany, Ph.D.
	4:00 pm - 4:15 pm	CRC2026-D-25-00694	YouTube vs ChatGPT: Evaluating Digital Tools for Improving Construction Hazard Prevention through Design (CHPTD)	Nishi Chaudhary; Anto Ovid; Mahzabin Tamanna; S M Jamil Uddin, Ph.D.; Alex Albert, Ph.D.
12	3:15 pm - 3:30 pm	CRC2026-D-25-00471	Resilient Healthcare Facility Design: Data-Driven Strategies to Prevent Service-User Incidents	Ali Mahmoudi, M.F.A; Gabriel Castelblanco, Ph.D.
	3:30 pm - 3:45 pm	CRC2026-D-25-00491	Towards a Resilient Energy Infrastructure: A Comprehensive Framework for Equitable Energy Access in Delaware	Ashish Asutosh, Ph.D.; Vikram Ganesan; Emily Fasig; Slade Goldman
	3:45 pm - 4:00 pm	CRC2026-D-25-00478	Walking Towards Sustainability: Identifying Needs and Proposing Solutions for Small-Town Pedestrian-Friendly Infrastructure	Minerva Bonilla, Ph.D.; Weiling He, Ph.D.
	4:00 pm - 4:15 pm	CRC2026-D-25-00480	Barriers to Recovery in Hurricane-Impacted Rural Communities	Surendra Nepal; Elnaz Safapour, PhD; Behzad Rouhanizadeh, Ph.D.; Aayush Khadka, Graduate Student
13	3:15 pm - 3:30 pm	CRC2026-D-25-00783	Feasibility Study on Inferring Construction Workers Roles and Cooperation Status Using Graph Neural Networks	Si Yeon Kim, Ph.D.; Heung Jin Oh, Ph.D.; Soowon Chang, Ph.D.
	3:30 pm - 3:45 pm	CRC2026-D-25-00807	Automated Classification of Construction Incident Reports: A Systematic Review and Evaluation of Models	Anto Ovid; Alex Albert; Abdullah Alsharaf; SM Jamil Uddin; Gongfan Chen
	3:45 pm - 4:00 pm	CRC2026-D-25-00626	Multimodal LLM Framework for Context-Aware Locomotion Prediction in Construction Exoskeletons	Asif Faisal Chowdhury, Ph.D. Student; Ehsan Ahmadi, Ph.D. Candidate; Chao Wang

## CRC Podium Presentation Schedule (Tentative)

March 20, 4:45 - 5:30 pm				
Stream	PaperID	Title	Authors	
5	4:45 pm - 5:00 pm	CRC2026-D-25-00813	Large Language Models for Human State Inference: A Case Study on Stress Detection from Wearable Sensors	Tianzhi He, Ph.D.; Farrokh Jazizadeh
	5:00 pm - 5:15 pm	CRC2026-D-25-00814	Weather-Integrated Computer Vision Framework for Real-Time Construction Safety Risk Assessment	Roy Lan, Ph.D.; Olugbenga Falomo; Ibukun Awolusi, Ph.D.
	5:15 pm - 5:30 pm	CRC2026-D-25-00815	Computer Vision Framework for Detecting Unsafe Exoskeleton Use in Construction Activities	Muhammad Khan, PhD; Otokini Cotterell, BSc; Ashrant Aryal, PhD; Chukwuma Nnaji, PhD
6	4:45 pm - 5:00 pm	CRC2026-D-25-00643	Assessing AI Readiness and Strategic Priorities in the U.S. Construction Industry: Insights from Industry Collaborators	Mostafa Namian, Ph.D.; Samuel Olatunbosun; Moslem Sheikhhoshkar; M.K.S. Al-Mhdawi, Ph.D.
	5:00 pm - 5:15 pm	CRC2026-D-25-00644	Effect of AI Trainer Demographic Matching on Construction Safety Training Outcomes	Samuel Olatunbosun; Mostafa Namian, Ph.D.; Mohammad Khalid, Ph.D.; Chukwuma Nnaji, Ph.D.
	5:15 pm - 5:30 pm	CRC2026-D-25-00631	Linear Fit Noise Reduction for Improved Pavement Condition Forecasting	Shavil Singh; Houman Kamran Habibkhani, Ph.D.; Pham Anh Thu Nguyen; Khan Linh Nguyen; Tin Phan; John Milton Ponce; Negar Ghoojani; Luke Lee, Ph.D.; Baabak Ashuri, Ph.D.; Frederick Chung, Ph.D.
7	4:45 pm - 5:00 pm	CRC2026-D-25-00020	Aligning Project Schedules and BIM Models for 4D BIM: An ISO 19650-Based Project Controls Perspective	Jaehyun Park, Ph.D.
	5:00 pm - 5:15 pm	CRC2026-D-25-00392	Digital Twin Adoption in Facilities Management: Critical Success Factors for Mission-Critical Buildings	Mahdi Anbari Moghadam, MSc; Deniz Besiktepe, PhD; Rodolfo Valdes-Vasquez, Ph.D.
	5:15 pm - 5:30 pm	CRC2026-D-25-00758	A Data-Driven Approach for Multi-Scale GIS-Based Building Energy Modeling Supporting Retrofitting Analysis and Decision-Making	Narjes Faghieh; Kaiwen Chen, PhD; Yuyang Ye, PhD; Jialai Wang, PhD
8	4:45 pm - 5:00 pm	CRC2026-D-25-00738	Quantitative Analysis of Concrete Waste using Terahertz and Raman Spectroscopy: Toward Safer and Greener Concrete	Ebenezer O. Fanijo, PhD, P.E., M. ASCE; Hrishikesh Jadhav, MS; Taofiq O. Mohammed; David Citrin, PhD
	5:00 pm - 5:15 pm	CRC2026-D-25-00741	Uncovering Age-Related Differences in Heat Stress Recognition and Progression Under Gradual Indoor Heat Exposure: Insights for Building Thermal Resilience	Prosper Babon-Ayeng; Wooyoung Jung, Ph.D.
	5:15 pm - 5:30 pm	CRC2026-D-25-00743	Construction Challenges and Benefits of Mass Timber Tall Buildings: An Industry Perspective	Maryam Kouhroostami, Ph.D.; M.ASCE1; Vineeth Dharmapalan, Ph.D.; M.ASCE 2
9	4:45 pm - 5:00 pm	CRC2026-D-25-00745	Understanding How People Seek and Process Information about Risks in the Built Environment During an Industrial Disaster	Joseph Toland, MSc; Bennett Smith; Andrew Whelton; Farshid Vahedifard; Lauryn A. Spearing
	5:00 pm - 5:15 pm	CRC2026-D-25-00799	Geospatial Suitability Modeling for Environmental and Energy-Informed Data Center Site Selection	Hayoung Kim; Cansu Coskun; Soowon Chang, Ph.D.; Deniz Besiktepe, Ph.D.
	5:15 pm - 5:30 pm	CRC2026-D-25-00801	Foldable Modular Technology: A Mixed-Methods Analysis of a New Frontier in Affordable Modular Housing	Pedram Moussavi, MSE; Jin Ouk Choi, Ph.D
10	4:45 pm - 5:00 pm	CRC2026-D-25-00236	Neuro-Physiological Sensing Education for Improving Undergraduate Construction Curriculum	Adedeji Afolabi, Ph.D.; Olugbenro Ogunrinde, Ph.D.
	5:00 pm - 5:15 pm	CRC2026-D-25-00533	Students' Perceptions of Artificial Intelligence in an Online Construction Management Course	Fan Zhang, Ph.D.
	5:15 pm - 5:30 pm	CRC2026-D-25-00249	Which did a better job? A Pilot Comparison of Instructors Perceptions on Different Large Language Models Responses in Construction Education	Yanchao Zheng, M.S.; Luciana Debs, Ph.D.; Deniz Besiktepe, Ph.D.
11	4:45 pm - 5:00 pm	CRC2026-D-25-00164	The Interplay of Task and Social Stressors on Construction Workers Risk-taking Behavior: An Augmented Reality Study	Shangyi Lei; Shiva Pooladvand, Ph.D.; Sogand Hasanzadeh, Ph.D.
	5:00 pm - 5:15 pm	CRC2026-D-25-00621	Vehicle Speed Estimation Using a Roadside Camera and 3D Scene Reconstruction for Work Zone Intrusion Prediction	Janvita Reddy; Nitai Premal Shah; Yalong Pi, Ph.D.; Jaehoon Lee; NAMGYUN KIM, Ph.D.
	5:15 pm - 5:30 pm	CRC2026-D-25-00885	Construction Workers Perceptions of Heat Stress Interventions: A Comparative Analysis and the Influence of Demographic Factors	Mehdi Torbat Esfahani, M.S.; Tolulope Oyeyipo, M.S.; Ibukun Awolusi, Ph.D.; Susan Taah, MEng.
12	4:45 pm - 5:00 pm	CRC2026-D-25-00437	Exploring the Cooling Potential of an Indoor Green Wall Using Plant Evapotranspiration Under Varying Environmental Conditions	Alireza Sedghikhanshir, MS; Yimin Zhu, Ph.D.; Yan Chen, Ph.D.; Arup Bhattacharya, Ph.D.; Xugui Zhou, Ph.D.; Saeid Chahardoli
	5:00 pm - 5:15 pm	CRC2026-D-25-00572	Identifying Entrance Accessibility in Subsidized Housing Using a Vision Language Model-Assisted Pipeline with a Chain of Refinement	Seongju Jang; Gunwoo Yong; Francis Baek; Kimberly Rollings; SangHyun Lee
	5:15 pm - 5:30 pm	CRC2026-D-25-00612	Performance Assessment of CO2-Based DCV in Retrofit Applications in central DOAS: Balancing IAQ and Energy Efficiency	Niloufar Ghazanfari, PhD Student; Georg Reichard
13	4:45 pm - 5:00 pm	CRC2026-D-25-00982	Use of Generative Artificial Intelligence Technology for Evaluating Strength and Environmental Impacts of Sustainable Concrete Mixtures	Pranshoo Solanki, Ph.D.; Sundeepti Inti, Ph.D., P.E.; Xi Hu, Ph.D.
	5:00 pm - 5:15 pm	CRC2026-D-25-00624	Exploring the Utility of Large Language Models (ChatGPT) in Biophilic Design Evaluation	Hoda Alemrajabi, MSc; Ruichuan Zhang, Ph.D.; Tanyel Bulbul, Ph.D.
	5:15 pm - 5:30 pm	CRC2026-D-25-00625	Leveraging Large Language Models with Hierarchical Decoding and Modular Finetuning for Extraction Information from Building Codes	Haonan Sun, Master; Nora El-Gohary, Ph.D.
1	4:45 pm - 5:00 pm	CRC2026-D-25-00729	A Workflow for BIM-LCA Integration to Optimize Material Use and Minimize Embodied Carbon in Buildings	Zahra Khashei; Sandeep Langar, PhD
	5:00 pm - 5:15 pm	CRC2026-D-25-00732	Climate Change Adaptation in Transportation Infrastructure: A Bibliometric Analysis of Nature-based Approaches to Flood Resilience	Macaia B. Napoleão; Sandeep Langar, PhD
	5:15 pm - 5:30 pm	CRC2026-D-25-00733	Navigating Water Delivery in Remote Alaska: Identifying a Sociotechnical Solution to Inefficient Routing Practices	Michaela L. Schuler, Ph.D.; Katherine Adams, Ph.D.; Arkajyoti Roy, Ph.D.; Kasey M. Faust, Ph.D.
2	4:45 pm - 5:00 pm	CRC2026-D-25-00539	A Review of Informal Learning Practices in Architecture, Engineering, and Construction Domain	Jingyuan Shen; Jing Wen, Ph.D.
	5:00 pm - 5:15 pm	CRC2026-D-25-00951	Owner Competencies for Initiating and Managing Design-Build Projects	Reshalla Ramsaran; Colin Lasch; Kevin Muiruri; Bryan Franz, Ph.D.; Carrie Sturts Dossick, Ph.D.
	5:15 pm - 5:30 pm	CRC2026-D-25-00243	Online Social Spaces for Architecture, Engineering, and Construction (AEC) Education: A Systematic Review	Bruno Fuentes Navarro, Bachelor's; Didong Xu; Nana Kwabena Asamoah Antwi; Gilles Albeaino, Ph.D.; Charles Gurganus, Ph.D., P.E.
3	4:45 pm - 5:00 pm	CRC2026-D-25-00182	Early Warning of High-Risk Worker Behaviors on Construction Sites via Pose-Aware Computer Vision Models	Wenlin Li; Zhenhui Ou; Siyuan Song, Ph.D.
	5:00 pm - 5:15 pm	CRC2026-D-25-00695	Weather Effects on Construction Worker Safety in the United States	Xiao Liang; Hongtao Dang, Ph.D.; Waheed Lawal
	5:15 pm - 5:30 pm	CRC2026-D-25-00696	Safety Demonstrations as a Catalyst for Improving Construction Safety Culture	Stacy Kolegraff; Kylie Parrotta; June McClure; Paityn McGarvey
4	4:45 pm - 5:00 pm	CRC2026-D-25-00808	Evaluating Closed-Set and Open-Vocabulary Object detectors in Real-Time Construction Environment	Anto Ovid; Alex Albert; Gongfan Chen; Abdullah Alsharif; SM Jamil Uddin
	5:00 pm - 5:15 pm	CRC2026-D-25-00629	Automated Zero-Shot Video Segmentation of Indoor Walls via SAM2 with Pretrained Semantic Prompts	Yuxiang Huang, Ph.D student; Nora El-Gohary, Ph.D
	5:15 pm - 5:30 pm	CRC2026-D-25-00630	Enabling Intelligent Collaboration in Architectural Programming: A Hierarchical Multi-Agent Reinforcement Learning Framework for Mega Transportation Projects	Shitao Jin, Ph.D.; Yuan Deng; Huijun Tu, Ph.D.

## CRC Podium Presentation Schedule (Tentative)

March 21, 8:30 - 9:30am				
Stream	PaperID	Title	Authors	
5	8:30 am - 8:45 am	CRC2026-D-25-00368	Optimization of HVAC Systems with Edge Computing Using AI and Data Analytics for Building Energy Efficiency	Haiyan Sally Xie, Ph.D.; Md Farhadur Reza, Ph.D.
	8:45 am - 9:00 am	CRC2026-D-25-00373	Portable Lightweight Real-Time AI System Using Edge-RAG for Construction Best Practice Interactions	Gongfan Chen, Ph.D.; Yuning Li, Ph.D.; Edward Jaselskis, Ph.D.; Yizhi Liu, Ph.D.
	9:00 am - 9:15 am	CRC2026-D-25-00648	A Flexible Technology Assessment Tool for Remote Construction Inspections	Yelda Turkan, PhD; Heidar Rastiveis, PhD; Michael Olsen, PhD; Donghoon Ji; Daniel Tran, PhD; Nhien Ledinh; Christopher Parrish, PhD; Chase Simpson; Devin Harris, PhD; Roger Chen, PhD
	9:15 am - 9:30 am	CRC2026-D-25-00378	A Fuzzy Fault Tree Analysis Model for Evaluating the Failure Potential of Generative AI Integration in Construction Risk Management	Mohamed Abdelwahab Hassan Mohamed, Ph.D Student; M.K.S. Al-Mhdawi, Ph.D.; Abroon Qazi, Ph.D; Charf Eldine Mahammedi, Ph.D; Moheeb Abualqumboz, PhD; Ghazal Chianeh, PhD Candidate
6	8:30 am - 8:45 am	CRC2026-D-25-00316	UGV-based Spatiotemporal Monitoring of Indoor Environmental Quality Using an Integrated BIM-IoT Framework with Autonomous Navigation	Fahad Iqbal, MSc; Shayan Mirzabeigi, Ph.D. in Sustainable Construction Management
	8:45 am - 9:00 am	CRC2026-D-25-00400	Open-Vocabulary, Context-Aware Robot Navigation on Construction Sites: Integrating LLM-Driven Value Map Composition with Hierarchical Scene Graphs	Xiayu Zhao; Houtan Jebelli, Ph.D.
	9:00 am - 9:15 am	CRC2026-D-25-00503	4D BIM Integrated Rule-Based Safety Checking System for Identifying Safety Hazards in Construction Robot Operations	Hafiz Oyediran, PhD; Kyungki Kim, PhD; Pei-Chi Huang, PhD; Terry Stentz, PhD; Kelli Kopocis, PhD
	9:15 am - 9:30 am	CRC2026-D-25-00311	Tactile-Aware Soft Hexapod UAV Gripper for Multi-Modal Aerial Manipulation in Construction	Xiayu Zhao; Yizhi Liu, Ph.D.; Katherine Driggs-Campbell, Ph.D.; Houtan Jebelli, Ph.D.
7	8:30 am - 8:45 am	CRC2026-D-25-00933	Effects of drone approaching distance on workers' attention allocation: Cognitive tunneling under time pressure	Yibo Qiang; Sebastien Helie; Jeffrey M. Haddad; Sogand Hasanzadeh; Behzad Esmaeili
	8:45 am - 9:00 am	CRC2026-D-25-00036	Enhancing Communication Among AEC Project Partners Through the Use of Emerging Technologies	Emma Trisch, MS in Architectural Engineering; Mamdouh Mohamed; Mackenzie Murtha
	9:00 am - 9:15 am	CRC2026-D-25-00037	Scalable Carbon Assessment for Sustainable Urban Futures through Automated Systematic Tools: Lessons from New York	Siavash Ghorbany; Ming Hu, PhD; Siyuan Yao; Matthew Sisk, PhD; Chaoli Wang, PhD
	9:15 am - 9:30 am	CRC2026-D-25-00039	Automating Plywood Optimization: A Simulated Annealing Approach for Smarter Construction Sites	Ayman M. Sherif; Mohamed S. Eid, Ph.D; Mohamed Elsayad
8	8:30 am - 8:45 am	CRC2026-D-25-00601	Wage Delay Rumor Dynamics Impact in Construction Projects	Mahmoud Karam; Mohamed Salem Nashwan; Mohamed S. Eid, Ph.D
	8:45 am - 9:00 am	CRC2026-D-25-00603	Comparative Case Studies on the Performance Impacts of BIM Integration in Façade Engineering	Melina Maharjan, Master of Science in Construction Management; Suat Gunhan, Ph.D.; Ruoxin Xiong, Ph.D.
	9:00 am - 9:15 am	CRC2026-D-25-00746	Improving the Accuracy of Change Order Documentation and Impact Assessment Using LLM-Based Multi-Cause Detection	Jeongyoon Oh, PhD Student; Baabak Ashuri
	9:15 am - 9:30 am	CRC2026-D-25-00901	Framework for Managing and Sharing UAS-Acquired Data in Transportation Infrastructure Monitoring	Olugbenga Falomo; Roy Lan, Ph.D.; Ibukun Awolusi, Ph.D.; Arturo Schultz, Ph.D.; Jiannan Cai, Ph.D.; Ao Du, Ph.D.
9	8:30 am - 8:45 am	CRC2026-D-25-00115	Investigating the Asymmetric Impacts of Protectionism and Liberalization on Construction Material Prices	Ahmed Shiha; Islam H. El-adaway, Ph.D.
	8:45 am - 9:00 am	CRC2026-D-25-00098	Preliminary Cost Estimation and Reconciliation Practices in Construction Management at Risk (CMAR)	Namho Cho, Ph.D.; Zia Ud Din, Ph.D.
	9:00 am - 9:15 am	CRC2026-D-25-00784	Improving Construction Schedule Using BIM	Danielle Malik; Tulio Sulbaran, Ph.D.
	9:15 am - 9:30 am	CRC2026-D-25-00103	Resource-Constrained Scheduling for Post-Disaster Housing Reconstruction A Reinforcement-Learning-Based Simulation Study in Lombok, Indonesia	Qianchen Yu, Ph.D.; Vivian Wong, Ph.D.
10	8:30 am - 8:45 am	CRC2026-D-25-00248	Industry Professionals' Perspective of Emerging Technologies Integration into Construction Education Curriculum: A Texas Case Study	Tyler Rider, BS; Olugbenro Ogunrinde, Ph.D., M.S.; Jeff Cunion, Ph.D.; Billy Gray, Ph.D.; Isabella-Kharissa Pena, BS
	8:45 am - 9:00 am	CRC2026-D-25-00541	Challenges in Retrofitting Aging Mechanical Systems from Heat and Frost Insulators Perspectives	Parisa Salehi, Ph.D. Student; Aslihan Karatas, Assistant Professor; Sogand Hasanzadeh, Assistant Professor; Behzad Esmaeili, Associate Professor
	9:00 am - 9:15 am	CRC2026-D-25-00536	The State of the Art in Construction Education in the Age of Artificial Intelligence: A Comparative Study of the United States and China	Yiwen Cheng; Fujia Lyu
	9:15 am - 9:30 am	CRC2026-D-25-00251	Now Hiring: A Study of Job Advertisement Preferences for Entry-Level Employees	Kristal Metro, Ph.D. Candidate; Christofer Harper; Susan M. Bogus
11	8:30 am - 8:45 am	CRC2026-D-25-00193	Intentional Unsafe Behaviors in Construction: A Systematic Review of Influencing Factors and Opportunities for Immersive Technologies	Mehran Mahmoudi Motahar; Steven K. Ayer; Siddharth Bhandari; Matthew R. Hallowell
	8:45 am - 9:00 am	CRC2026-D-25-00181	Analyzing Extreme Weather Impact on Construction Safety Using Large Language Models	Zhenhui Ou; Wenlin Li; Siyuan Song, Ph.D.
	9:00 am - 9:15 am	CRC2026-D-25-00623	Improving Embedding-based Retrieval for Crane Safety Regulations	Bing Shuai; Carlos H. Caldas, Ph.D., P.E.
	9:15 am - 9:30 am	CRC2026-D-25-00179	Construction Work Zone Safety: Identifying Critical Crash Factors and Patterns in Florida	Ann Ubaka; Abdallah Alsammani, Ph.D.; Mohamed Khalafalla, Ph.D.; Doreen Kobelo Regalado, Ph.D.
12	8:30 am - 8:45 am	CRC2026-D-25-00483	Impact of Arundo donax Biochar and Class F Fly Ash on the Mechanical Properties of Hydraulic Cement Mortar	Jonathan Culpepper; Sharareh Shirzad, PhD
	8:45 am - 9:00 am	CRC2026-D-25-00490	Reframing Circularity Through the Economics of Design for Disassembly and Adaptability: A Systems Perspective	Jordyn Golden, B.A.; Gabriel Castelblanco, PhD
	9:00 am - 9:15 am	CRC2026-D-25-00486	Experimental Investigation of Thermal Performance of Inefficient Windows Under High Solar Radiation and Extreme Heatwaves with Power Outages	Suman Paneru; Mohammad Elmi; Yuqing Hu; Julian Wang
	9:15 am - 9:30 am	CRC2026-D-25-00499	Community-Guided Climate Adaptation: Integrating Indigenous Priorities in Arctic Infrastructure Planning	Daniel Butcher, M.S.; Suzanne A. Pierce, Ph.D.; William Mobley, Ph.D.; Ana Lacau, B.S.; Kasey M. Faust, Ph.D.
13	8:30 am - 8:45 am	CRC2026-D-25-00374	Data-Driven Analysis of Energy Efficiency Measures (EEMS) For Energy Retrofitting in U.S. Residential Buildings	Sorena Vosoughkhosravi, Ph.D.; Amirhosein Jafari, Ph.D.
	8:45 am - 9:00 am	CRC2026-D-25-00651	SMART-Inspect: Standards Management and Retrieval Technology for Inspection	Khaled Sayed, Ph.D.; Reihaneh Samsami, Ph.D., P.E.
	9:00 am - 9:15 am	CRC2026-D-25-00656	LLM-based Construction Safety Monitoring Utilizing Human-Centered Image Simplification	Amirpooya Shirazi, M.S.; Arezoo Shirazi, Ph.D.
	9:15 am - 9:30 am	CRC2026-D-25-00385	Thermal Image-based Clothing Insulation Level Recognition with Limited Data Using Fine-Tuned Multimodal Large Language Models	Moein Younesi Heravi; Youjin Jang, Ph.D.; Inbae Jeong, Ph.D.

## CRC Podium Presentation Schedule (Tentative)

March 21, 10:00 - 11:00am				
Stream		PaperID	Title	Authors
5	10:00 am - 10:15 am	CRC2026-D-25-00380	Evaluating Supervised and Vision-Language Models for Automated Culvert Defect Detection in Utah's Transportation Infrastructure	Pouria Mohammadi, Ph.D.; Sadegh Asgari, Ph.D.; Abbas Rashidi, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00657	Evaluating Large Language Models for Converting Traditional Construction Contracts into Smart Contracts	Erfan Moayyed, PhD Candidate; Chimay Anumba, PhD
	10:30 am - 10:45 am	CRC2026-D-25-00388	Can AI Reengineer Construction? Understanding Industry Awareness, Perception, and Digital Evolution	Hooman Sadeh, Ph.D.; Ruichuan Zhang, Ph.D.; Cristian Gaedicke, Ph.D., P.E.; Farzad Shahbodaghlu, Ph.D.; Min Jae Lee; Dimitar Todorov, Ph.D., P.E.
	10:45 am - 11:00 am	CRC2026-D-25-00391	LLM-based Tool for Automatic Feedback for Rubric-based Feedback in Construction	Zhenlin Yang; Gabriel E. Castelblanco Bolivar; Laura M Cruz Castro
6	10:00 am - 10:15 am	CRC2026-D-25-00121	Automation of interior design for accessibility in science, technology, engineering, and mathematics (STEM) laboratories	Jingyi Lai, master; Jiansong Zhang; Hazar Nicholas Dib; Bradley Duerstock; Nan Kong
	10:15 am - 10:30 am	CRC2026-D-25-00295	EXPLORING CONSTRUCTION TASKS THAT CAN BE PERFORMED BY ROBOTS	Fangxiao Li; Robert M. Leicht, Ph.D.
	10:30 am - 10:45 am	CRC2026-D-25-00578	Digitizing Homebuilding: A Case Study of Technology Integration in a Residential Construction Firm	Feroz Ahmed, Ph.D.; Fan Zhang, Ph.D.
7	10:00 am - 10:15 am	CRC2026-D-25-00358	Building Cohesive Digital Ecosystems: Proposing a Conceptual Framework for Integrating Digital Twins, Digital Threads, Ontologies, and Data Architectures	Amin Khoshkenar, PhD Candidate; Hala Nassereddine, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00366	Scan2floorplan: Generating As-Built Floor Plans for Aging Buildings via Sequential 2D Analysis	Tao Zhong, Bachelor; Yujie Lu; Bo Peng
	10:30 am - 10:45 am	CRC2026-D-25-00752	Reducing Operator Variability in Real-World Simulation of Post-Building Collapse Rescue Operations	Maral Nazemi; Ahmad Alshami; Juyeong Choi, Ph.D.; Qian Zhang, Ph.D.
8	10:00 am - 10:15 am	CRC2026-D-25-00060	Correlating Procurement and Payment Types with Cost and Schedule Growths of Design-Build Highway Projects	Nehemiah Chukwuere, BS Quantity Surveying; Pramen Shrestha, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00053	Alternative Dispute Resolution in the United States Public-Private Partnership Projects – Empirical Analysis through Case Studies	Kevin Muiruri, MSc. CM, BSc. Civil; Ahmed Abdel Aziz
	10:30 am - 10:45 am	CRC2026-D-25-00054	Shared Leadership Networks: Driving Sustainability in the Built Environment	Faizan Shafique, PhD, PMP, LEED AP, WELL AP, CM-Lean; Sinem Mollaoglu, PhD, LEED AP, CGP
	10:45 am - 11:00 am	CRC2026-D-25-00598	Comparing NLP and LLM Approaches for Risk Classification using Unstructured Data	Abdolmajid Erfani, PhD; Masoud Erfani
9	10:00 am - 10:15 am	CRC2026-D-25-00716	Investigating Characteristics of Modular Building Manufacturers in the USA	Kiran Moktan, Ph.D. Student; Jin Ouk Choi, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00717	ENABLERS AND BARRIERS FOR COST MANAGEMENT IN CONSTRUCTION PROJECTS USING BIM	RAVINDRANADH CHOWDARY KAMMA, Ph.D; Kuchipudi Poorna Prasad; Tushar Sharma; K G Siddarda Naidu
	10:30 am - 10:45 am	CRC2026-D-25-00128	Examining Technical Competencies for Bridge Construction Inspection	Nhien Le, Ph.D student; Daniel Tran, Ph.D.; Christofer Harper, Ph.D; Roy E. Sturgill, Ph.D
	10:45 am - 11:00 am	CRC2026-D-25-00122	Identifying Enablers, Drivers, and Barriers to Collaboration and Innovation in Construction	Ali Tabaja; Amelia Celozza, Ph.D.
10	10:00 am - 10:15 am	CRC2026-D-25-00857	Culture of Quality in Construction: A Systematic Literature Review	Mauricio Alejandro Rivera Miraval, BEng.; Mauricio Andr�a Neyra Padilla, BEng.; Sulyn Gomez Villanueva, Ph.D.; Elisa Lopez Hern�andez, Eng.
	10:15 am - 10:30 am	CRC2026-D-25-00151	Behavior, Perception, and Physiological Responses to AI-Generated Safety Training Materials	Yiyang Shu, M.Sc.; Farouq Sammour, M.Sc.; Zhenyu Zhang, Ph.D.; Xi Wang, Ph.D.; Mo Hu, Ph.D.
	10:30 am - 10:45 am	CRC2026-D-25-00422	Techno-Economic Evaluation of PV Microgrid Configurations with Hydrogen and Battery Storage for Residential Applications	sadia jahan noor, Master's Student; Hyosoo Moon, Ph.D; Raymond Tesiero, Ph.D; Seyedali Mirmotalebi, Ph.D Student
	10:45 am - 11:00 am	CRC2026-D-25-00423	Equity in Transportation Infrastructure Funding: A Geospatial Analysis of Resource Distribution in Charlotte Neighborhoods	Tung Le; Lemlem Abebaw Asaye; Chau Le, Ph.D.; Trung Tran; A.M.ASCE,3
11	10:00 am - 10:15 am	CRC2026-D-25-00353	Exploring OSHA Construction Accident Records with Multimodal AI Models	islem sahraoui, M.S.; Tejaswini Sanjay Katala; Gowtham Reddy Gudla; Lu Gao, Ph.D.; Kinam Kim, Ph.D.; Zia Din, Ph.D.; Ahmed Senouci, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00203	Evaluating Mental Stress in Multi-Level Human-Robot Interaction During Construction Tasks	Yue Zhao, Ph.D; Jun Wang, Ph.D; Junfeng Ma, Ph.D
	10:30 am - 10:45 am	CRC2026-D-25-00147	Flexible Wearable EDA Sensors with Edge AI for Real-Time Cognitive Load Monitoring in Construction	Yogesh Gautam; Houtan Jebelli, Ph.D.
12	10:00 am - 10:15 am	CRC2026-D-25-00439	Bridge Deterioration Forecasting with Deep Learning and Monte Carlo Simulation for Resilient Infrastructure Asset Management and Maintenance Planning	Ghadi Charbel; Rayan H. Assaad, Ph.D.; Mohamad Awada
	10:15 am - 10:30 am	CRC2026-D-25-00742	Contextual Modifiers of LEED v4 Credits: The Impact of Project Type, Size, Certification Date, and Climate on Predictive Power of Credit Categories	Mohsen Liam Goodarzi, Ph.D.; Ava Nafiseh Goodarzi, Ph.D.; Mohammadsoroush Tafazzoli, Ph.D.; Mojtaba Parsaee, Ph.D.; Mohsen Garshasby, Ph.D.
	10:30 am - 10:45 am	CRC2026-D-25-00477	Understanding Stakeholder Interactions and Institutional Dynamics in Reverse Logistics	Paula Lopez Alvarez de Neyra, M.S.; Amelia Celozza, Ph.D.
	10:45 am - 11:00 am	CRC2026-D-25-00468	Scenario-Based Decision-Making Support Framework in Selecting Sustainable Urban Growth Strategies: An Exploratory Application	M Imtiaz Rahman; Yoojung Yoon, Ph.D.
13	10:00 am - 10:15 am	CRC2026-D-25-00956	Benefits and Barriers to Adopting Reality Capture in Construction: Insights from the Iowa Industry	Manner Thurlby Atimboro; Cristina Poleacovschi, Ph.D.
	10:15 am - 10:30 am	CRC2026-D-25-00825	Early Termination Provisions under Transportation Public-Private Partnerships - Institutional Guidance Review	Miriam Ccarita Cruz, M.Sc; Ahmed Abdel Aziz, Ph.D
	10:30 am - 10:45 am	CRC2026-D-25-00859	Advancing Construction Quality Management with Wearable Sensing Devices	Amanda Betancourt; Tulio Sulbaran, Ph.D.; Ibukun Awolusi, Ph.D.