

Creative Construction Conference 2017
June 19, 2017 - June 22, 2017 - Primošten, Croatia

Monday - June 19, 2017

14:00		Registration
19:00	21:00	Welcome Reception in Hotel Zora

Tuesday - June 20, 2017

8:45	9:00	Welcome and Introductions: Miklós Hajdu, Chair of the International Organizing Committee		
9:00	9:45	Keynote Speech: Tai Sik Lee <i>Future Technology in Civil Engineering – Smart City and Space Technology</i>		
9:45	10:00	Coffee Break		
10:00	11:00	Creative Management: Edgar Small	Creative Technology and Materials: Žiga Turk	Creative Scheduling: Miklós Hajdu
		Zoltán Sebestyén: <i>Further Considerations in Project Success</i>	Rongbo Hu, Camilla Follini, Wen Pan, Thomas Linner, Thomas Bock: <i>A Case Study on Regenerating Informal Settlements in Cairo using Affordable and Adaptable Building System</i>	Gunnar Lucko, Yi Su: <i>Precedence Pattern Permutations Creating Criticality Constellations: Exploring a Conjecture on Non-linear Activities with Continuous Links</i>
		Mladen Radujković, Mariela Sjekavica: <i>Project Management Success Factors</i>	Hyunsu Lim, Taecheon Kim, Chang-Won Kim, Hunhee Cho, Kyung-In Kang: <i>Window Proximity Tracking Method for Tall Building Construction</i>	Zoltán A. Vattai: <i>“CRITICAL” TERMINOLOGY – Apropos of a Conjecture</i>
		István Hajnal: <i>Stigmatised Property: A Method of Comparing Blights</i>	Radan Tomek: <i>Advantages of Precast Concrete in Highway Infrastructure Construction</i>	Adel Francis, Stéphane Morin-Pepin: <i>The Concept of Float Calculation Based on the Site Occupation using the Chronographical Logic</i>
		Farzad Pour Rahimian, Jack Goulding, Akintola Akintoye and Shaba Kolo: <i>Review of Motivations, Success Factors, and Barriers to the Adoption of Offsite Manufacturing in Nigeria</i>	Kyuhyup Lee, Soonwook Kwon, Joonghwan Shin, Suwan Chung and Songyi Lee: <i>A Prediction Method of Vertical Lifting Loads based on Long-Term Time Series Analysis for High-Rise Building Construction</i>	Sifniadis Anestis, Petroutsatou Kleopatra: <i>Exploring of the Consequences of Human Resources Multitasking in Industrial Automation Projects: A Tool to Mitigate Impacts</i>
11:00	11:30	Coffee Break		
11:30	12:45	Creative Management: Zoltán Sebestyén	Creative Technology and Materials: Thomas Bock	Automation and Robotics in Construction: Mirosław Skibniewski
		Žiga Turk, and Robert Klinc: <i>Potentials of Blockchain Technology for Construction Management</i>	Ameer A. Jebur, William Atherton, Rafid M. Alkhada, Edward Loffill: <i>Nonlinear Analysis of Single Model piles Subjected to Lateral Load in Sloping Ground</i>	Soonwook Kwon, Jae-Woo Park, Daeyoon Moon, Suwan Jung, Heesung Park: <i>Smart Merging Method for Hybrid Point Cloud Data Using UAV and LIDAR in Earthwork Construction</i>
		Rachel C. Coyner, Scott W. Kramer: <i>Long Term Benefits of Building Commissioning: Should Owners Pay the Price</i>	Abdelkarim Dib, László Gergely Vigh: <i>Innovative Structural Solution for Dissipative Zone Stiffened by Longitudinal Stiffeners</i>	Hyeoun-Seong Kim, Sangmi-Park, Sunju-Han, Leen-Seok Kang: <i>AR-based 4D CAD system using marker and markerless recognition method</i>
		Tsegay Gebrehiwet, Hanbin Luo: <i>Analysis of Delay Impact on Construction Project Based on RII and Correlation Coefficient: Empirical Study</i>	Mark C. Tatum, Junshan Liu: <i>Unmanned Aircraft System Applications In Construction</i>	Michael Polter, Raimar Scherer: <i>Towards an Adaptive Civil Engineering Computation Framework</i>
		Heng Wang, Bryan Hubbard: <i>A Survey Study on Industrial Construction Project Supply Chain: On Time Performance and Practices of Structural Steel and Pipe Spools</i>	Befrin Neval Bingol, Gul Polat: <i>Measuring Managerial Capability of Subcontractors Using a KPI Model</i>	Zaiyi Pan, Hongling Guo, Yan Li: <i>Automated Method for Optimizing Feasible Locations of Mobile Cranes Based on 3D Visualization</i>
		Rachel C. Okada, April E. Simons, Anoop Sattineni: <i>Owner-Requested Changes in the Design and Construction of Government Healthcare Facilities</i>	VPS Nihar Nanyam, Riddha Basu, Anil Sawhney, Harsh Vikram, Gourav Lodha: <i>Implementation of Precast Technology in India: Opportunities and Challenges</i>	Vladimir Krizaić, Matija Varga, Lovro Gradišer, Sanjana Buč: <i>Legalization Applications Integration</i>
12:45	14:00	Lunch		

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14:00	14:45	Keynote Speech: Ghassan F. Aouad <i>The Art and Science of Leadership in Construction</i>		
14:45	15:00	Disperse to sessions		
15:00	16:15	Creative Management: Borja Garcia de Soto	Creative Technology and Materials: Chansik Park	Sustainable construction: Augustin Purnus
		Espen Eivindson, Berner E. Innvær, Elisabeth Kolberg, Christoph Merschbrock, Christian Nordahl Rolfsen : <i>Inefficiencies in Norwegian Small-scale Construction, or the Problem of Too Long Trucks?</i>	Olusegun Aanuoluwapo Oguntona, Clinton Ohis Aigbavboa : <i>Biomimetic Materials and Technologies for Carbon Neutral Cities in South Africa: A Literature Review</i>	John Smallwood : <i>The Impact of a Client Contractor Health and Safety (H&S) Programme on Contractor H&S Performance</i>
		Iver Grytting , Fredrik Svalestuen, Jardar Lohne, Håvard Sommersteth, Siri Augdal, Ola Lædre: <i>Use of LoD decision plan in BIM-projects</i>	Sungwoo Moon : <i>Application of Mobile Devices in Remotely Monitoring Temporary Structures during Concrete Placement</i>	S. Thomas Ng , Frank J. Xu, Yifan Yang, Mengxue Lu: <i>A Master Data Management Solution to Unlock the Value of Big Infrastructure Data for Smart, Sustainable and Resilient City Planning</i>
		Pablo Orihuela , Santiago Pacheco, Jorge Orihuela: <i>Proposal of Performance Indicators for the Design of Housing Projects</i>	Salem G. Nehmea, Roland László, Abdulkader El Mir : <i>Mechanical Performance of Steel Fiber Reinforced Self-compacting Concrete in Panels</i>	Robert H. Crawford , Xavier Cadorel: <i>A Framework for Assessing the Environmental Benefits of Mass Timber Construction</i>
		Keith A. Rahn , Phillip Davis, Mark Dougherty: <i>Laboratory Methods Examining The Effects Of Pavement Runoff</i>	Ameer A. Jebur , William Atherton, Rafid M. Alkhadar, Edward Loffill: <i>Piles in Sandy Soil: A Numerical Study and Experimental Validation</i>	Ran Wang , Chia-Jung Lee, Shu-Chien Hsu: <i>Predicting the Effects of Board Composition on Construction Corporate Misconduct</i>
				Anqi WANG, Edwin CHAN , Stanley YEUNG: <i>A Framework for Conservation Construction Plan Model (CCPM)</i>
16:15	16:45	Coffee Break		
16:45	18:00	Creative Management: Miklos Hajdu	Sustainable construction: John Smallwood	Visualization, BIM: Zoltán A. Vattai
		Jon-Ove Liaset Røren , Paulos Abebe Wondimu, Jardar Lohne, Ola Lædre: <i>Interweaving Zoning and Design in Road Projects</i>	Lyndsey N. D. Pruitt, Scott W. Kramer : <i>How Historical Solutions to Thermal Comfort Influenced Modern Construction Efforts</i>	Darren Olsen, J. Mark Taylor : <i>Quantity Take-Off Using Building Information Modeling (BIM), and its Limiting Factors</i>
		Tidimalo Kobue, Ayodeji Oke, Clinton Aigbavboa : <i>Understanding the Determinants of Students' Choice of Occupancy</i>	Christopher A. Jensen : <i>Staged Competition as a Driver of Construction Innovation</i>	Manuele Cassano, Marco L. Trani : <i>LOD Standardization for Construction Site Elements</i>
		Edgar P. Small , Lu'ay Ayyash, Khaled Al Hamouri: <i>Benchmarking Performance of TQM Principals in Electrical Subcontracting in Dubai: A Case Study</i>	Muhammad Abdulredha , Rafid AL khaddar, David Jordan, Ali Alattabi: <i>Facing Up to Waste: How Can Hotel Managers in Kerbala, Iraq, Help the City Deal with its Waste Problem?</i>	Zhiliang Ma , Yuan Ren: <i>Integrated Application of BIM and GIS: An Overview</i>
		Lauren Redden , Wesley Collins, Jeff Kim: <i>Integration of Construction Mobile Technologies into Construction Management Curriculum: A Case Study</i>	Gul Polat, Atilla Damci, Harun Turkoglu , and Asli Pelin Gurgun: <i>Identification of Root Causes of Construction and Demolition (C&D) Waste: The Case of Turkey</i>	Aynur Kazaz, Turgut Acikara , Serdar Ulubeyli, Hasan Koyun: <i>Detection of Architectural Drawings Errors in 3 Dimension</i>
		Magdalena Apollo : <i>Prognostic and Diagnostic Capabilities of OOBN in Assessing Investment Risk of Complex Construction Projects</i>		Robert Bouška , Renáta Schneiderová Heralová: <i>Opportunities for Use of Advanced Visualization Techniques for Project Coordination</i>

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Wednesday - June 21, 2015

8:45	9:30	Keynote Speech: Robert M. Aydukovic <i>Workforce Development and Preparing the Next Generation of Built Environment Professionals</i>		
9:30	9:45	Disperse to sessions		
9:45	10:45	Creative Management: Farzad Pour Rahimian	Sustainable Construction: Clinton Aigbavboa	Creative Scheduling: Adel Francis
		Edgar P. Small , Khaled Al Hamouri, Husameddin Al Hamouri: <i>Examination of Opportunities for Integration of Lean Principles in Construction in Dubai</i>	Steinar Grynning , Jørn Emil Gaarder , Jardar Lohne: <i>Climate Adaptation of School Buildings through MOM: A Case Study</i>	Panagiotis M. Farmakis, Athanasios P. Chassiakos : <i>Dynamic Multi-Objective Layout Planning of Construction Sites</i>
		Daniel André Danielsen , Olav Torp, Jardar Lohne: <i>HSE in Civil Engineering Programs and Industry Expectations</i>	Patrick Manu, Abdul-Majeed Mahamadu , Bonaventura Hadikusumo, Narong Leungbootnak, Alistair Gibb, Nick Bell: <i>Can Personal Values Help to Manage Workers' Occupational Safety and Health Behaviour?</i>	Borja García de Soto , Anton Rosarius, Jochen Rieger, Qian Chen, Bryan T. Adey: <i>Using a Tabu-search Algorithm and 4D Models to Improve Construction Project Schedules</i>
		Danny Murguia , Xavier Brioso: <i>Using "Choosing by Advantages" and 4D Models to Select the Best Construction-Flow Option in a Residential Building</i>	Sina Safinia , Zamarad Al-Hinai, Hussin A.M Yahia, Mohammed F.M. Abushammala: <i>Sustainable Construction in Sultanate of Oman: Factors Effecting Materials Utilization</i>	Levente Mályusz , Anita Varga: <i>An Estimation of the Learning Effect on Project Cost Scheduling</i>
		Sangyoon Chin , Inchie Kim, Cheol-Ho Choi: <i>What Authentication Technology Should Be Chosen for Construction Manpower Management?</i>	Monique Schmidt , Robert H. Crawford: <i>Developing an Integrated Framework for Assessing the Life Cycle Greenhouse Gas Emissions and Life Cycle Cost of Buildings</i>	Levente Mályusz , Anita Varga: <i>An Estimation of the Learning Curve Effect on Project Scheduling with Calendar Days Calculation</i>
10:45	11:15	Coffee Break		
11:15	12:30	Creative Management: István Hajnal	Sustainable Construction: Keith A. Rahn	Visualization, BIM: TBA
		Petro Pöyhönen , Matti Sivunen, Juho-Kusti Kajander: <i>Developing a Project Delivery System for Construction Project: A Case Study</i>	Mabila A. Mathebula, John J. Smallwood : <i>Religious Building Collapses: The Heavy Price of Short Cuts in Places of Worship and Pilgrimage Site Construction</i>	Taowen Sun, Zhen Xu , Jingyu Yuan, Chang Liu, Aizhu Ren: <i>Virtual Experiencing and Pricing of Room Views Based on BIM and Oblique Photogrammetry</i>
		Danny Murguia , Xavier Brioso, Lucia Ruiz-Conejo, Leandro Fernandez: <i>Process Integration Framework for the Design Phase of a Residential Building</i>	Paul-Antoine Bontinck , Robert H. Crawford , André Stephan: <i>Improving the Uptake of Hybrid Life Cycle Assessment in the Construction Industry</i>	Conrad Boton, Daniel Forgues : <i>The Need for a New Systemic Approach to Study Collaboration in the Construction Industry</i>
		Silvia Mastrolemba Ventura, Vito Getuli , Pietro Capone, Angelo L.C. Ciribini: <i>BIM-based Code Checking for Construction Health and Safety</i>	Gul Polat, Harun Turkoglu and Asli Pelin Gurgun: <i>Identification of Material-Related Risks in Green Buildings</i>	Abdur Rehman Nasir , Hans-Joachim Bargstädt: <i>An Approach to Develop Video Tutorials for Construction Tasks</i>
		I. Temiz and Gulben Calis : <i>Selection of Construction Equipment by Using Multi-criteria Decision Making Methods</i>	Tarila Zuofa , Edward G. Ocheing: <i>Senior Managers and Safety Leadership Role in Offshore Oil and Gas Construction Projects</i>	Shrutiniwas Sharma , Anil Sawhney, Mohammed Arif: <i>Parametric Modelling for Designing Offsite Construction</i>
		Anders Haugen , Paulos Abebe Wondimua, Jardar Lohne, Ola Lædre: <i>Project Delivery Methods in Large Public Road Projects: A Case Study of E6 Jaktøyen – Sentervegen</i>	Daniel de Robles, Scott W. Kramer : <i>Improving Indoor Air Quality through the Use of Ultraviolet Technology In Commercial Buildings</i>	Hervé Pruvost , Raimar J. Scherer: <i>Analysis of Risk in Building Life Cycle Coupling BIM-Based Energy Simulation and Semantic Modeling</i>
12:30	13:45	Lunch		
13:45	14:30	Keynote Speech: Haijiang Li <i>Computing Innovations in AEC/O Industry</i>		
14:30	14:45	Disperse to sessions		

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14:45	16:00	Creative Management: Gunnar Lucko	Sustainable Construction: John Smallwood	Creative Management: István Hajnal
		<u>Taqdees Anjum</u> , Poorvesh Dongre, Fozail Misbah, VPS Nihar Nanyam: <i>Purview of 3DP in the Indian Built Environment Sector</i>	<u>Robert H. Crawford</u> , Deepika Mathur, Rolf Gerritsen: <i>Barriers to Improving the Environmental Performance of Construction Waste Management in Remote Communities</i>	<u>Turgut Acikara</u> , Aynur Kazaz, Serdar Ulubeyli: <i>Evaluations of Construction Project Participants' Attitudes Toward Quality Management in Turkey</i>
		<u>Murrendeni Liphadzi</u> , Clinton Aigbavboa, Wellington Thwala: <i>A Theoretical Perspective on the Difference between Leadership and Management</i>	<u>André Stephan</u> , Christopher A. Jensen, Robert H. Crawford: <i>Improving the Life Cycle Energy Performance of Apartment Units through Façade Design</i>	Callistus Tengan, <u>Clinton Aigbavboa</u> : <i>Level of Stakeholder Engagement and Participation in Monitoring and Evaluation of Construction Projects in Ghana</i>
		<u>Atle Engebø</u> , Nina Kjesbu, Ola Lædre and Jardar Lohne: <i>Percieved Consequences of Counterfeit, Fraudulent and Sub-standard Materials</i>	<u>Mathieu Dupuis</u> , A. April, P. Lesage and D. Forgues: <i>Method to Enable LCA Analysis through Each Level of Development of a BIM Model</i>	<u>Simon Holst Aandahl</u> , Paulos Abebe Wondimu, Jardar Lohne, Ola Lædre: <i>Managing the Room of Maneuver in Design Build Contracts – A Comparative Study of Norwegian Road Projects</i>
		Gul Polat, <u>Befrin Neval Bingol</u> , Ozgen Var: <i>An Integrated Multi-Criteria-Decision-Making Tool for Mechanical Designer Selection</i>	Merve Kuru, <u>Gulben Calis</u> : <i>Understanding the Relationship between Indoor Environmental Parameters and Thermal Sensation of Users via Statistical Analysis</i>	Ayodeji Oke, <u>Clinton Aigbavboa</u> , Zacharia Mangena: <i>Prevention of Collusion for Innovative Construction</i>
		Moein Barakchi, Olav Torp, <u>Alemu Moges Belay</u> : <i>Cost Estimation Methods for Transport Infrastructure: A Systematic Literature Review</i>	<u>Ramya Kumanayake</u> , Hanbin Luo: <i>Development of an Automated Tool for Buildings' Sustainability Assessment in Early Design Stage</i>	A.E. Cengiz, O. Aytekin, I. Ozdemir, H. Kusanb, <u>A. Cabuk</u> : <i>A Multi-Criteria Decision Model for Construction Material Supplier Selection</i>
16:00	16:30	Coffee Break		
16:30	18:00	Creative Management: Levente Mályusz	Creative Construction Technology and Materials: Zhiliang Ma	Creative Scheduling: Adel Francis
		<u>Laura Florez</u> , Jean C. Cortissoz: <i>Using Workers Compatibility to Predict Labor Productivity through Cluster Analysis</i>	<u>Cathy C.W. Hung</u> , Pi-Cheng Chen, Shu-Chien Hsu: <i>The Economic Consequences of Construction Sector in Urbanized Small Economy: An Analysis of Hong Kong</i>	A. Corneli, S. Meschini, V. Villa, G.M. Di Giuda, <u>A. Carbonari</u> : <i>A Decision Support System for the Multicriteria Analysis of Existing Stock</i>
		<u>Niclas Andersson</u> , Jerker Lessing: <i>The Interface between Industrialized and Project Based Construction</i>	<u>Sareh Moosavi</u> : <i>Ecological Coastal Protection: Pathways to Living Shorelines</i>	Richard C. Thompson, Jr., Yi Su, <u>Gunnar Lucko</u> : <i>Measuring Project Performance Inspired by Stock Index</i>
		<u>Riddha Basu</u> , VPS Nihar Nanyam, Anil Sawhney: <i>A Multi-Dimensional Subcontractor Evaluation Framework for Nonconventional Housing Systems</i>	<u>Ali Waheid Alattabi</u> , Clare Harris, Rafid Alkhaddar, Ali Alzeyadi, Khalid Hashim: <i>Treatment of Residential Complexes' Wastewater using Environmentally Friendly Technology</i>	<u>Augustin Purnus</u> , Constanta-Nicoleta Bodea: <i>A Predictive Model of Contractor Financial Effort in Transport Infrastructure Projects</i>
		<u>Nokulunga Mashwama</u> , Clinton Aigbavboa, Didi Thwala: <i>An Assessment of the Critical Success Factors for the Reduction of Cost of Poor Quality in Construction Projects in Swaziland</i>	<u>Muhammad Abdulredha</u> , Rafid AL khaddar, David Jordan, Khalid Hasim: <i>The Development of a Waste Management System in Kerbala During Major Pilgrimage Events: Determination of Solid Waste Composition</i>	<u>Xavier Brioso</u> , Danny Murguia, Alonso Urbina: <i>Teaching Takt-Time, Flowline, and Point-to-Point Precedence Relations: A Peruvian Case Study</i>
		<u>Alemu Moges Belay</u> , Olav Torp: <i>Do Longer Projects Have Larger Cost Deviation than Shorter Construction Projects?</i>	Bahaa Eddine Mneymneh, Mohamad Abbas, <u>Hiam Houry</u> : <i>Automated Hardhat Detection for Construction Safety Applications</i>	<u>Miklos Hajdu</u> : <i>Applying Logical Switches on Precedence Relationships</i>
		Oluwaseun Sunday Dosumu, <u>Clinton O. Aigbavboa</u> : <i>Impact of Design Errors on Variation Cost of Selected Building Project in Nigeria</i>	<u>Ali Waheid Alattabi</u> , Clare Harris, Rafid Alkhaddar, Ali Alzeyadi and Muhammad Abdulredh: <i>Online Monitoring of a Sequencing Batch Reactor Treating Domestic Wastewater</i>	<u>Petr Matějka</u> , Aleš Tomek: <i>Ontology of BIM in a Construction Project Life Cycle</i>
18:45	22:00	Gala Dinner (Gathering in the hotel lobby at 18:30)		
Thursday - June 22, 2017				
8:30	18:30	Sightseeing + Dinner (Gathering in hotel lobby at 8:15)		