

Creative Construction Conference 2016
June 25 - 28, 2016 - Budapest, Hungary
Detailed Program

Saturday - June 25, 2016

14:00	9:15	Registration
19:00	21:00	Welcome Reception

Sunday - June 26, 2016

9:00	9:15	Welcome and Introductions: Miklós Hajdu , Chair of the International Organizing Committee (Lecture hall: Star Auditorium)		
9:15	10:00	Keynote Speech 1 Behrokh Khosravian: The Promise and the Challenge of 3-D Printing in Construction (Lecture hall: Star Auditorium)		
10:00	10:30	Coffee break - Disperse to sessions		
10:30	11:30	Creative Management: Alfredo Serpell (Lecture hall: Star Auditorium)	Visualization, BIM: Žiga Turk (Lecture hall: Jasmine I.)	Creative Scheduling for Construction: Mario Vanhoucke (Lecture hall: Jasmine II.)
		Borja García de Soto , Bryan T. Adey Preliminary Resource-based Estimates Combining Artificial Intelligence Approaches and Traditional Techniques	Zhiliang Ma , Na Mao, Qiliang Yang A BIM Based Approach for Quality Supervision of Construction Projects	Miklós Hajdu , Mirosław E. Skibniewski, Mario Vanhoucke, Ioannis Brillakis, Árpád Horváth: How Many Types of Critical Activities Exist? - A Conjecture that Needs a Proof
		Margaret K.Y. Mok , Geoffrey Qiping Shen A Network-theory Based Model for Stakeholder Analysis in Major Construction Projects	Christian Nordahl-Rolfen ; Christoph Merschbrock Acceptance of Construction Scheduling Visualizations: Bar-charts, Flowline-charts, or Perhaps BIM?	Xavier Brioso , Antonio Humero, Sarah Calampa Comparing Point-to-point Precedence Relations and Location-Based Management System in Last Planner System: A Housing Project of Highly Repetitive Processes Case Study
		István Hajnal Challenges in Public Facility Management: Some Remarks to the EN 15221 FM Standard	Vito Getuli , Silvia Mastrolembo Ventura, Pietro Capone, Angelo L. C. Ciribini Field BIM and Supply Chain Management in Construction: An On-going Monitoring System	Augustin Purnus , Constanta-Nicoleta Bodea Cash Flow Multi-Criteria Analysis in Construction Projects
		Petro Pöyhönen , Juho-Kusti Kajander, Matti Sivunen Innovation Management System for Construction Companies	Marco L. Trani, Manuele Cassano , Davide Todaro A BIM Template for Construction Site Planning	Yi Su, Gunnar Lucko Applying Political Apportionment to Pre-Allocate Float / Buffer Ownership
11:30	11:45	Technical break		
11:45	12:45	Creative Management: Borja García de Soto (Lecture hall: Star Auditorium)	Visualization, BIM: Zhiliang Ma (Lecture hall: Jasmine I.)	Creative Scheduling for Construction: Miklós Hajdu (Lecture hall: Jasmine II.)
		J. Mark Taylor B Corporations – Hype or Hope?	Po-Han Chen , Thanh-Chuong Nguyen Integrating BIM and Web Map Service (WMS) for Green Building Certification	Aynur Kazaz, Serdar Ulubeyli, Bayram Er , Turgut Acikara Construction Materials-based Methodology for Time-Cost-Quality Trade-off Problems
		Alfredo Serpell , José Ignacio Díaz Linking Central Business Processes of Construction Companies with the Performance of Construction Operations	Qunzhou Yu, Kaiman Li , Hanbin Luo A BIM-based Dynamic Model of Site Material Supply	Orcun Demireken , Basak Keskin, Rifat Sonmez Project & Portfolio Management Software Use in Construction Industry
		Xavier Brioso , Antonio Humero Incorporating Lean Construction Agent into the Building Standards Act: The Spanish Case Study	David Comiskey , Stephen Moss, John Moss, Fiona Brazil, Eoin O'Shea, Mark McKane, Harry Walton Geospatial Data Capture for BIM in Retrofit Projects - A Viable Option for Small Practices in Northern Ireland?	Ali Can Tatar , Mert Bilir, Rifat Sonmez, Tankut Atan A Mixed Integer Model for Optimization of Discrete Time-Cost Trade-off Problem
		Radan Tomek , Stanislav Vításek Improvement of Economic Effectiveness of Road Highway Projects	Nam Bui , Christoph Merschbrock, Björn Erik Munkvold A Review of Building Information Modelling for Construction in Developing Countries	Aynur Kazaz, Serdar Ulubeyli, Turgut Acikara, Bayram Er Factors Affecting Labor Productivity: Perspectives of Craft Workers
12:45	14:15	Lunch		
14:15	15:00	Keynote Speech 2 Mario Vanhoucke: The Big Data Project Manager: Academics Like what they Do and Professionals Know what they Want (Lecture hall: Star Auditorium)		
15:00	15:15	Disperse to sessions		
15:15	16:15	Creative Management: István Hajnal (Lecture hall: Star Auditorium)	Visualization, BIM: Borja García de Soto (Lecture hall: Jasmine I.)	Creative Scheduling for Construction: Miklós Hajdu (Lecture hall: Jasmine II.)
		Edgar P. Small, Marwa Baqer Examination of Job-Site Layout Approaches and their Impact on Construction Job-Site Productivity	Matti Tauriainen , Pasi Martinen, Bhargav Dave, Lauri Koskela BIM and Lean Construction Change Design Management Practices	Levente Mályusz Effect of the Learning Curve in Project Scheduling
		Alemu Moges Belay , Olav Torp, Carl Thodesen Knowledge Management (KM) in Concurrent Construction Projects	Michał Juszczyk , Andrzej Tomana, Maja Bartoszek Current Issues of BIM-based Design Change Management, Analysis and Visualization	Laura Florez , Jean C. Cortisoz Defining a Mathematical Function for Labor Productivity in Masonry Construction: A Case Study
		Ahmed Senouci, Alaa Ahmad Ismail, Neil Eldin Time and Cost Overrun in Public Construction Projects in Qatar	Malak Al Hattab, Farook Hamzeh Analyzing Design Workflow: An Agent-based Modeling Approach	Zoltán Vattai Floyd-Warshall in Scheduling Open Networks
		Attila Pém , Levente Mályusz Arrangement of Material Depots at Construction Site by Using Continuous Conditions	Javad Majrouhi Sardroud , Reza Mohajeri Borje Ghaleh, Mohsen Kameli, An Investigation on Building Information Modeling Role in Industrialization of Buildings	Adel Francis Should Time Be the Only Scale Required for Relationship and Margin Calculations?
16:15	16:45	Coffee break		
16:45	18:00	Creative Management: Augustin Purnus (Lecture hall: Star Auditorium)	Sustainable Construction: Igal M. Shohet (Lecture hall: Jasmine I.)	Creative Scheduling for Construction: Gunnar Lucko (Lecture hall: Jasmine II.)
		Matthew A. Tibbs, Scott W. Kramer Market Penetration and the Incentives of Residential Solar Electricity in the United States	Lauren Satchwell, John Smallwood The Role of Emotional Intelligence in Managing Construction Projects	Ioanna N. Papadaki, Athanasios P. Chassiakos Multi-objective Construction Site Layout Planning Using Genetic Algorithm
		Djoen San Santos, Hewagamage Eranga Ravihara Kulathunga Examining Happiness: Towards Better Understanding of Performance Improvement	Guo Hongling, Yu Yantao , Zhang Weisheng, Li Yan BIM and Safety Rules Based Automated Identification of Unsafe Design Factors in Construction	Miklós Hajdu Continuous Relations in Network Techniques: Time Analysis
		Gul Polat, Atilla Damci, Asli Pelin Gurgun , Ilayda Demirli Urban Renewal Project Selection Using the Integration of AHP and PROMETHEE Approaches	David Dagan, Shabtai Isaac Optimization of Construction Site Safety Supervision Activities	Farook Hamzeh , Emile Zankoul, Fatima El Sakka Removing Constraints to Make Tasks Ready in Weekly Work Planning
		Vladimir Krizaić Bridge Maintenance Automation	Christy Chan, Tony Ma Energy Efficiency Housing in South Australia – A Gap Analysis between the Expected and Actual Benefits	Simo Sudic Initial Analysis, Planning and Calculating of Vertical Transportation in Construction
			Žiga Turk Responsible Research and Innovation in Construction	Levente Mályusz Models for Learning Curve and Fatigue Effect

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Monday - June 27, 2016

9:15	10:00	Keynote Speech 3 Albert P.C. Chan: Enhancing Occupational Health and Safety through Anti-Heat Stress Uniform (Lecture hall: Star Auditorium)		
10:00	10:30	Coffee Break - Disperse to sessions		
10:30	11:45	Creative Management: Augustin Purnus (Lecture hall: Star Auditorium)	Sustainable Construction: Shabtai Isaac (Lecture hall: Jasmine I.)	Automation and Robotics in Construction: Miroslaw Skibniewski (Lecture hall: Jasmine II.)
		Gul Polat , Befrin Neval Bingol, Asli Pelin Gurgun, Bulent Yel Comparison of ANN and MRA Approaches to Estimate Bid Mark-Up Size in Public Construction Projects	Hainan Chen, Xiaowei Luo Severity Prediction Models of Falling Risk for Workers at Height	Igal M. Shohet , Lorenzo Ciabocco On-site Mobile Application for Command, Control and Communication of Safety and Quality
		Gul Polat , Fatih Cetindere, Atilla Damci, Befrin Neval Bingol Smart Home Subcontractor Selection Using the Integration of AHP and Evidential Reasoning Approaches	Asli Pelin Gurgun, Gul Polat, Atilla Damci, Hasan Gokberk Bayhan Performance of LEED Energy Credit Requirements in European Countries	Ximena Ferrada , Daniela Núñez, Andrés Neyem, Alfredo Serpell, Marcos Sepúlveda A Cloud-Based Mobile System to Manage Lessons-Learned in Construction Projects
		Callistus Tengan, Clinton O. Aigbavboa Evaluating Barriers to Effective Implementation of Project Monitoring and Evaluation in the Ghanaian Construction Industry	P. Lee, M.C. Wang, Edwin H.W. Chan An Analysis of Problems with Current Indicators for Evaluating Carbon Performance in the Construction Industry	Liyun Ding, Qi Fang Maintenance Strategy of Multi-Equipment Network Systems Based on Topology Vulnerability Analysis
		Thomas Streule , Nino Miserini, Olin Bartlomé, Michael Klippel, Borja García de Soto Implementation of Scrum in the Construction Industry	Zakari Mustapha, Clinton Ohio Aigbavboa , Wellington Didi Thwala Exploratory Factor Analysis of Employee's Actions towards Health and Safety Compliance in Construction	Shabtai Isaac , Miklós Hajdu The Possibilities for Automated Online Project Tracking Based on the New Developments of Precedence Diagramming
		Nuno Dinis Cortiços , Miguel Baptista-Bastos Three Entities to Maximize Creative Construction Quality	John Smallwood , Fidelis Emuze Towards Zero Fatalities, Injuries, and Disease in Construction	
11:45	13:15	Lunch		
13:15	14:00	Keynote Speech 4 Ioannis Brilakis: Virtualizing Infrastructure		
14:00	14:15	Disperse to sessions		
14:15	15:30	Creative Management: Gul Polat (Lecture hall: Star Auditorium)	Sustainable Construction: John Smallwood (Lecture hall: Jasmine I.)	Automation and Robotics in Construction: Ioannis Brillakis (Lecture hall: Jasmine II.)
		Renault Y. Berenger, Justus N. Agumba, Olanrewaju Abdul Balogun Drivers for and Obstacles to Enterprise Risk Management in Construction Firms: A Literature Review	Mark Taylor , Kelli A. Polzin, Scott W. Kramer Passive House Performance Standards and Climate Considerations	Pablo Orihuela , Jorge Orihuela, Santiago Pacheco Information and Communications Technology in Construction: A Proposal for Production Control
		Olanrewaju Abdul Balogun , Justus Ngala Agumba, Nazeem Ansary Determinants Predicting Credit Accessibility within Small and Medium-Sized Enterprises in the South African Construction Industry	Sima Michal Elkabets , Igal M. Shohet, D. Ornai, R. Levy A Risk Assessment and Management Methodology for the Improvement of Safety and Protection of Ammunition and Explosive Facilities	Javier Eduardo Arenas Bermudez, Julian Kang Application of UAS for Nuclear Plant Containment Building Inspection: Lessons Learned from Testing the First Application
		Farzad Abdi Nian, Hamed Kashani A Real Option Model to Evaluate Investments in Combined Heat and Power (CHP) Projects	Keith A. Rahn , Kasie Elston Reducing Operational Costs for Inherited Buildings: Case Study of a Women's Shelter at the End of its Life Cycle	Hanbin Luo, Xiaofan Peng , Botao Zhong Ontology-based Emergency Plan Management of Metro Operation and its Application in Staff Training
		Farnaz Khaghani, Hamed Kashani Real Option Application in Energy Performance Contracts	Alon Uralinis , Igal M. Shohet Derivation of Seismic Risk Function for Critical Infrastructures	Min-Koo Kim , Scott McGovern, Michael Belsky, Campbell Middleton, Ioannis Brilakis A Suitability Analysis of Precast Components for Standardised Bridge Construction in the United Kingdom
		Ayodej E. Oke, Clinton O. Aigbavboa , Oamen M. Odia Human Resource Management Practices in Quantity Surveying Firms	Ulysses L. Gracia, Scott W. Kramer The Use of Reclaimed Rain Water in U.S. Cities and USACE Installations	
15:30	16:00	Coffee break		
16:00	17:15	Creative Management: Borja Garcia de Soto (Lecture hall: Star Auditorium)	Creative Construction Technology and Materials: Miklós Hajdu (Lecture hall: Jasmine I.)	Creative Construction Technology and Materials: Gunnar Lucko (Lecture hall: Jasmine II.)
		Bernand Martin Arthur-Aidoo, Clinton O. Aigbavboa , Wellington Didibhuku Thwala Attitudes of Owners which Impedes Firm's Growth: A Case of Small and Medium-sized Construction Firms in Ghana	Ilias Naskoudakis, Kleopatra Petroustasou A Thematic Review of Main Researches on Construction Equipment over the Recent Years	Eivind Johnsen , Magnus Nilsen, Eilif Hjelseth, Christoph Merschbrock Exploring a Simple Visualization Tool for Improving Conceptual Understanding of Classical Beam Theory
		Reza Zandi Doulabi , Ehsan Asnaashari Identifying Success Factors of Healthcare Facility Construction Projects in Iran	Igal M. Shohet , Lorenzo Ciabocco, Irena (Rina) Wasserman Deterioration Patterns of Stone Claddings under Standard Conditions and Marine Environment	András Jakab , Kinga Nehme, Salem Georges Classification of "I" – shaped Glass Columns
		Zoltán Rostás The Rebirth of a Hundred-year Old Public Park and Development of a New Museum District: A Project IT Approach	Keith A. Rahn , Megan M. McMullen Investigating the Effectiveness of Beach Fill Projects in the Northeast Region of the United States	Hayder Kamil Shanbara , Felicite Ruddock, William Atherton Rutting Prediction of A reinforced Cold Bituminous Emulsion Mixture Using Finite Element Modelling
			Sina Safinia , Amani Alkalbani Use of Recycled Plastic Water Bottles in Concrete Blocks	Nokulunga Mashwama , Clinton Aigbavboa, D. Thwala Investigation of Construction Stakeholders' Perception on the Effects & Cost of Construction Disputes in Swaziland
			István Vidovszky Impact-based Diagnostic Approach for Maintenance Monitoring of Historic Buildings	György Wiesner Testing the Connection between Fire Protection and Static Capacity of High Constructed Dry Walls
19:00	22:00	<i>Gala Dinner on the Széchenyi boat</i>		

Tuesday - June 28, 2016

8:15	15:30	<i>Excursion to Visegrád with Lunch</i>
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