

ECPPM 2016

07/Sep - 09/Sep. 2016, Limassol, Cyprus

Preliminary List of Hosted Papers

(08.06.2016)

PaperID	TITLE	AUTHORS	SPECIAL_SESSION
1	Managing constructability on a construction stage: BIM methods	Matti Tauriainen, Joni Helminen, Jari Puttonen	
2	Prediction of traffic characteristics in Smart Cities based on Deep Learning Mechanisms	Vana Gkania, Loukas Dimitriou	
3	A Comparative case study of BIM implementation in two Dutch projects	Ajibade Aibinu, Eleni Papadonikolaki	
4	BIM based product documentation in practical use in Norway and Portugal	Eilif Hjelseth, Pedro Meda Magalhaes	
5	Construction Information Framework ? the role of classification systems	Pedro Meda Magalhaes, Eilif Hjelseth, Hipolito Sousa	
6	Information Coherency and Design Process improvement ? A proposal for Project Delivery	Pedro Meda Magalhaes, Miguel Chichorro Goncalves, Hipolito Sousa	
7	BIM for the integration of Building Maintenance Management: A case study of a university campus	Rafaela Bortolini, Nuria Forcada, Marcel Macarulla	
8	Collaborative environment for energy efficient buildings within the context of neighbourhood	May Bassanino, Terrence Fernando, Kuo-Cheng Wu, Krzysztof Klobut, Tarja Makelainen, Mari Hukkalainen	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference
9	Promoting energy users' behavioural change in social housing through a serious game	Miquel Casals, Marta Gangoells, Marcel Macarulla, Alba Fuertes, Rory Jones, Sabine Pahl	
10	Using a mobile application to assess building accessibility in smart cities	Nuria Forcada, Marcel Macarulla, Rafaela Bortolini	
11	A concept for the classification of detection states in construction process monitoring	Alex Braun, Sebastian Tuttas, Andre Borrmann, Uwe Stilla	
12	Towards a Collaborative Planning Process by Providing a Common Data Environment for BIM-based applications	Cornelius Preidel, Andre Borrmann, Carl-Heinz Oberender, Markus Tretheway, Maximilian Eilhardt	
13	Structured building monitoring: ontologies and platform	Ardeshir Mahdavi, Stefan Glawischnig, Farhang Tahmasebi, Matthias Schuss	

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PaperID	TITLE	AUTHORS	SPECIAL_SESSION
14	Necessary conditions for the accountable inclusion of dynamic representations of inhabitants in building information models	Ardeshir Mahdavi, Farhang Tahmasebi	
15	IfcTunnel - A proposal for a multi-LoD extension of the IFC data model for shield tunnels under consideration of downward compatibility aspects	Simon Vilgertshofer, Javier Ramos Jubierre, Andre Borrmann	
16	Acquisition and processing of input data for building certification: An approach to increase the reproducibility of energy certificates	Ulrich Pont, Olga Proskurnina, Mahnameh Taheri, Ardeshir Mahdavi, Bernhard Sommer, Goga S. Nawara, Gabriela Adam	
17	Methodology for tracking BIM benefits on project level	Tarja Makelainen, Juha Hyvarinen, Mirkka Rekola	
18	Energy-efficient energy system design based on a newly Energy System Information Model and a generic cross-domain template concept	Pit Stenzel, Jens Kaiser	
19	Energy savings and maintenance optimization through the implementation of GESTENSIS energy management system	Marcel Macarulla, Miquel Casals, Marta Gangoells, Blanca Tejedor	
20	A Semantic Web Approach to Efficient Building Product Data Procurement	Ulrich Pont, Rainer Brauer, neda ghiassi, Mahnameh Taheri, Ardeshir Mahdavi	
21	Utilization of GIS Data for Urban-Scale Energy Inquiries: A Sampling Approach	neda ghiassi, Ardeshir Mahdavi	
22	Detecting, Classifying and Rating Roadway Pavement Anomalies Using Smartphones and Artificial Neural Networks	CHARALAMBOS KYRIAKOU, Symeon Christodoulou, Loukas Dimitriou	
23	A novel approach to building performance optimisation via iterative operations on attribute clusters of designs options	Ardeshir Mahdavi, Hamidreza Shirdel, Farhang Tahmasebi	
24	Facilitating the BIM coordinator and empowering the suppliers with automated data compliance checking	Leon van Berlo, Eleni Papadonikolaki	

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25	Automatic Configuration of Thermal Building Energy Performance Simulations using ontology-based Green Building Design Parameter Variations	Ken Baumgartel, Raimar J. Scherer	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference
26	Integrated buildings and systems design: approaches, tools, and actors	Ardeshir Mahdavi, Birgit Rader	
27	Building Information Modeling (BIM) for LEED? IEQ category prerequisites and credits calculations	Giacomo Bergonzoni, Marco Capelli, Francesco Conserva	
28	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference	May Bassanino	
29	Evaluating the implementing BIM in a construction firm with a focus on curtain wall system	Ehsan Fatehifar, Farnaz Nazari, Seyed Ali Derazgisou	
30	Combining BIM models and data with game technology to improve the decision making process: ?Playconstruct?.	Howard Jeffrey	
31	Waterloss Detection in Streaming Water Meter Data Using Hierarchical Temporal Memory	Elena Kourti, Christina Christodoulou, Symeon Christodoulou	
32	Utilising BIM to Mitigate the Risks Associated with Health and Safety in the Construction and Maintenance of Assets	Mohammed Muzafar	
33	SimpleBIM: From full ifcOWL graphs to simplified building graphs	Pieter Pauwels, Ana Roxin	
34	Topological Robustness and Vulnerability Assessment of Water Distribution Networks	Agathoklis Agathokleous, Christalleni Christodoulou, Symeon Christodoulou	
35	Patch Defects Detection for Pavement Assessment, using Smartphones and Support Vector Machines	Georgios Hadjidemetriou, Symeon Christodoulou	

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PaperID	TITLE	AUTHORS	SPECIAL_SESSION
36	A Critical Review of Systemic Innovation in the Construction and Film Industries	Sujesh Sujan, Gulnaz Aksenova, Arto Kiviniemi, Steve Jones	
37	A comprehensive ontologies-based framework to support retrofitting design of energy-efficient districts	Goncal Costa, Alvaro Sicilia, Jose Luis Izkara, Dimitrios Rovas, Georgios Lilis	
38	A Multi-objective Decision Optimization Model for Green Buildings Based on Stochastic Approach Considering Uncertainties	Seyedeh Samaneh Ghazimirsaeid, Terrence Fernando, Mousa Marzband	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference
39	From District Information Model (DIM) to Energy Analysis Model (EAM) via Interoperability	Niccolo Rapetti, Matteo Del Giudice, Anna Osello	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference
40	Implications of a BIM-based facility management and operation practice for design-intent models	Pouriya Parsanezhad, Vaino Tarandi, Orjan Falk	
41	Method of obtaining environmental impact data during the project development process through BIM tool use.	Micheline Marcos, Erica Yoshioca	
42	Introducing process mining for AEC: three experimental case studies	Stijn van Schaijk, Leon van Berlo	
43	Total life cycle and near real time environmental assessment approach: an application in a district and urban environment?	Corentin Kuster, Yacine Rezgui	
44	A new construction management course experimenting paradigm change in learning	Shabtai Isaac, Ronie Navon	
45	BIM Product Libraries - The Value Of Product Information	Vaino Tarandi, Pouriya Parsanezhad	
46	Comparing Diurnal Patterns of Domestic Water Consumption: An International Study	Julia Terlet, Gaelle Bulteau, Yacine Rezgui, Thomas H. Beach	
47	Using BIM to Support Building Compliant Evacuation Simulation	Johannes Dimyadi, Michael Spearpoint, Robert Amor	

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48	An Agile Process Modelling Approach for the Built Environment	Udo Kannengiesser, Ana-Maria Roxin	
49	Software library for spatial-temporal modeling and reasoning	Vitaly Semenov, Vladislav Zolotov	
50	Human-Resources Optimization & Re-Adaptation Modelling in Enterprises	Stelios Krinidis, Savvas Rogotis, Stylianos Zikos, Dimosthenis Ioannidis, Dimitrios Tzouvaras	
51	Access Control for Web of Building Data: Challenges and Directions	Jyrki Oraskari, Seppo Torma	
52	Collaboration and BIM supportive project execution model for the construction industry	Oystein Mejl?nder-Larsen, Cecile Flyen, Bjorn Erik Lie	
53	DRUMBEAT Platform – A Web of Building Data Implementation with Backlinking	Nam Vu Hoang, Seppo Torma	
54	Pragmatic Use of LOD - a Modular Approach	Niels Trelidal, Flemming Vestergaard, Jan Karlshoj	
55	Damage Assessment and Time-to-Repair Scheduling for Post-Earthquake Reinforced Concrete Building Rehabilitation using BIMs	Charalambos Georgiou, Symeon Christodoulou, Dimitrios Vamvatsikos	
56	BIM Registration Methods for Mobile Augmented Reality-Based Inspection	Marianna Kopsida, Ioannis Brilakis	
57	Gygax: Construction IT research platform for 2D & 3D data processing	Philipp Huethwohl, Marianna Kopsida, Juan Manuel Davila Delgado, Ioannis Brilakis	
58	KPI framework for energy efficient buildings and neighbourhoods	Juha Hyvarinen, Krzysztof Klobut, Aapo Huovila	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference
59	Ecosystem and platform analysis for construction project information sharing	Irina Peltomaa, Markku Kiviniemi	
60	A Methodology of Code Checking System for Design Quality Checking based on BIM	Inhan Kim, Jungsik Choi, Minjae Lee, Jongyeon Bae	
61	Simulation model generation combining IFC and CityGML data	Georgios Nektarios Lilis, Georgios Giannakis, Dimitrios Rovas	

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62	Collaboration requirements and interoperability fundamentals in BIM based multi-disciplinary building design processes	Gloria Calleja-Rodriguez, Romy Guruz, Marie-Christine Gei?ler, Klaus Linhard	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference
63	Multiscale building modelling and energy simulation approaches for urban sustainability	Ander Romero, Jose Luis Izkara, Asier Mediavilla	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference
64	Delivering COBie data - Focus on curtain walls and building envelopes	Michele Carradori, Michele Scotton, Paolo Borin, Carlo Zanchetta, Jan Karlshoej	
65	A work systems view on BIM technology adoption ? The case of on-site concrete reinforcement works	Alejandro Figueres-Munoz, Christoph Merschbrock	
66	Information Requirement Definition for Building Information Modeling: A Life Cycle Perspective	Georg Ferdinand Schneider, Aude Bougain, Peter Stephan Noisten, Matthias Mitterhofer	
67	IFC model checking based on mvdXML 1.1	Matthias Weise, Thomas Liebich, Nicholas Nisbet, Claudio Benghi	
68	Generation of Serious Games Environments from BIM for a Virtual Reality Crisis-Management System	Anna Wagner, Uwe Ruppel	
69	BIM-based building design platform - Local environmental effects on building energy performances	David DA SILVA, Patrick CORRALES, Philippe TOURNIER, Margarita CHEREPANOVA	
70	A flexible and scalable approach to building monitoring and diagnostics	Matthias Schuss, Ardeshir Mahdavi, Stefan Glawischnig	
71	An IT-based holistic methodology for analysing and managing building lifecycle risk	Herve Pruvost, Tom Grille, Raimar Scherer	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference
72	Querying Linked Building Data Using SPARQL with Functional Extensions	Chi Zhang, Jakob Beetz	
73	Emotional Intelligence - Improving the performance of Big Room	Enni Laine, Otto Alhava, Arto Kiviniemi	

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74	Construction business needs its own Uber ? Opportunity of Platform based Business Logic for Construction Sector	Enni Laine, Otto Alhava, Arto Kiviniemi	
75	Integrating BIM and Agent-Based Modelling for construction operational optimization	Francesco Livio Rossini, Gabriele Novembri, Antonio Fioravanti, Cristiano Insola	
76	Data exchange and procurement: A comparative analysis of industrial engineering and AEC domains	Ulrich Pont, Rainer Brauer, neda ghiassi, Mahnameh Taheri, Ardeshir Mahdavi, Marta Reka Sabou, Stefan Biffi	
77	CONTRACTUAL AND LEGAL ISSUES FOR BUILDING INFORMATION MODELLING IN TURKEY	Zeynep Sozen, Attila Dikbas	
78	Visualisation of Building Information Data to Support Decision-Making in the Design Phase	Angelo Luigi Camillo Ciribini, Marzia Bolpagni, Silvia Mastrolemo Ventura	
79	An ontology-based platform for BIM semantic enrichment	Davide Simeone, Stefano Cursi	
80	Energy modelling of existing facilities	Nicholas Nisbet, John Cartwright, Martin Aizlewood	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference
81	Managing IFC based information delivery requirements in a facility management organization.	Kjeld Svidt	
82	Extending BIM domain to inform heritage conservation	Ilaria Toldo, Davide Simeone	
83	The Implementation of Building Information Modeling at Design Firms and its correlation with Clients? Requirements in Massachusetts	Marzia Bolpagni, Angelo Luigi Camillo Ciribini	
84	Bundled agency - Application of shortest-path algorithm as design tool	Igor Pantic, Soomeen Hahm	
85	Generative Aesthetics - Exploring generative design methodology through the use of custom made design applets	Igor Pantic, Soomeen Hahm	

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86	Evaluating and combining different EXPRESS-to-OWL and IFC-to-RDF conversion approaches	Nam Vu Hoang	
87	Task-Specific Linking for Generating an eeBIM Model based on an Ontology Framework	Mathias Kadolsky, Raimar Scherer	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference
88	Exploratory Data Analysis for BIM	Andre Chaszar	
89	Web-based information modeling for mechanized tunneling	Andre Vonthron, Markus Konig	
90	A Semantic Enrichment Approach to Interoperability between BIM and GIS in Campus Environments	Mordechai Schaap, Rafael Sacks	
91	RESPONSIVENESS BASED MATERIAL - A[PASSIVE] SHADING CONTROL SYSTEM	Maria Joao de Oliveira, Vasco Rato	
92	Monitoring Drivers? Perception of Risk within a Smart City Environment	Loukas Dimitriou, Katerina Stylianou	
93	Identifying and addressing multi-source database inconsistencies: Evidences from global road safety information	Loukas Dimitriou, Paraskevas Nikolaou	
94	Ontology-based Shipyard Planning for Prototype Products	Markus Konig, Thomas Hilfert	
95	Interoperability: From Construction Models to Energy Simulation	Pedro Pereira, Nuno Ramos, Antonio Goncalves, Bruno Almeida, Pedro Malo	YES
96	Building Product Information as Linked Data	Gudni Gudnason, Pieter Pauwels	
97	A new training concept for implementation of 5D planning with regard to construction of large-scale projects	Katja Silbe, Joaquin Diaz, Leonid Herter	
98	Holonic Energy Optimization of Connected Smart Homes and Distributed Energy Resources through Semantic Interoperability	Shaun Howell, Yacine Rezgui, Jean-Laurent Hippolyte, Monjur Mourshed	

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99	Context aware information spaces through adaptive Multimodel Templates	Frank Hilbert, Raimar Scherer	
100	Resource Based Construction Project Management In the View of BIM Application	Ozlem Geylani, Prof.Dr. Attila Dikbas	
101	Building Information Modeling in use: How to evaluate the Return on Investment?	Annie Guerriero, Sylvain Kubicki, Sandrine Reiter	
102	A versatile and extensible solution to the integration of BIM and energy simulation	Davide Mazza, Emira El Asmi, Sylvain Robert, Khaldoun Zreik	
103	Intelligent Emergency Exit System Framework for Real-time Emergency Evacuation Guidance	Raja R. A. Issa, Jun Zhang	
104	Comparing Diurnal Patterns of Domestic Water Consumption: An International Study	Julia Terlet, Gaelle Bulteau, Yacine Rezgui, Thomas H. Beach	
105			
106	Total life cycle and near real time environmental assessment approach: an application in a district and urban environment?	Corentin Kuster, Yacine Rezgui	
107	Method of obtaining environmental impact data during the project development process through BIM tool use.	Micheline Marcos, Erica Yoshioca	
108	Visual support for multi-criteria decision making	Tuomas Laine, Francisco Forns-Samso, Ville Kukkonen	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference
109	Introducing process mining for AECFM: three experimental case studies	Stijn van Schaijk, Leon van Berlo	
110	Information Requirement Definition for Building Information Modeling: A Life Cycle Perspective	Georg Ferdinand Schneider, Aude Bougain, Peter Stephan Noisten, Matthias Mitterhofer	
114	Technical challenges and approaches to transfer building information models to building energy	Frank Noack, Vanda Dimitriou, Stephen K. Firth, Tarek M. Hassan, Peter Katranuschkov, Raimar Scherer, Nuno Ramos, Pedro Pereira, Pedro M. N. Mal?, Terrence Fernando	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference

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115	A collaborative platform integrating multi-physical and neighbourhood aware building performance analysis driven by the optimized HOLISTEEC building design methodology	Herve Pruvost, raimar scherer, Klaus Linhard, Georg Dangl, sylvain robert, Davide Mazza, Asier Mediavilla, dirk van Maercke, Eberhard Michaelis, Gamal Kira, Tarja H?kkinen, Elisabetta Delponte, Carolina Ferrando	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference
116	Open eeBIM Platform for Energy-Efficient Building Design	Raimar Scherer, Peter Katranuschkov, Ken Baumgartel	Modeling and Simulation for Energy Efficient-Neighborhoods; a special session for the ECPPM 2016 conference