

CIB World Building Congress 2019

19 June, 2019 (Day 3)		Room	Session Chair	Papers
<p>Subtheme 5 Smart Environment</p>	<p>11:00 - 12:30</p>	<p>Z206</p>	<p>Choi Jae-ho</p>	<p>Ab0128 - IMPACT OF REDUCING TOILET WATER CONSUMPTION ON SEWAGE SYSTEM DESIGN</p> <p>Ab0209 - Study on lighting for conducting comfortable medical environment Part 1 Difference in psychological responses of healthy young people depending on lighting type</p> <p>Ab0271 - Towards a more Circular Construction Model: Conceptualizing an open-BIM based Estimation framework for Urban mining.</p> <p>Ab0311 - Green Blue Roof as an effective strategy for the Sustainable Stormwater Management</p> <p>Ab0367 - An analytic network process for lifecycle sustainability assessment in major project development</p>
<p>Subtheme 3 Smart Planning, Design and Construction</p>	<p>14:30 - 16:00 (Z206)</p>	<p>Z206</p>	<p>Kathryn Davies</p>	<p>Ab0240 - Real life calibration of microbial models by application of UAV and AI- A conceptual study</p> <p>Ab0289 - A simplified BIM approach for small construction sites</p> <p>Ab0481 - The use of interoperability in BIM prefabricated wood frame housing production process</p> <p>Ab0494 - Activity-based vs. Object-based Scheduling in Construction: A Phenomenological Study A Phenomenological Study of the potential shift of Construction Scheduling Process</p> <p>Ab0509 - CLASSIFICATION OF CONSTRUCTION TRADE AND QUANTIFICATION OF WORK EFFICIENCY USING POSTURE RECOGNITIONS AND DEEP NEURAL NETWORKS</p> <p>Ab0512 - Workflow for the architectural housing conception based on local data of subnormal agglomerates</p>

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<p>Subtheme 1 Smart Building and Infrastructure</p>	<p>11:00 - 12:30</p>	<p>Z207</p>	<p>Yunfeng Chen</p>	<p>Ab0297 - Modeling uncertainty in electricity resilient community clustering: a spatial BigData approach</p> <p>Ab0452 - The Change of Building Information Modeling Maturity in the Last Five Years</p> <p>Ab0462 - Electronic Procurement Adoption in the Construction Industry: A Critical Review of Literature</p> <p>Ab0473 - A methodology of risk assessment, management and coping actions for Nuclear Power Plant (NPP) hit by high-explosive warheads</p> <p>Ab0151 - Integrated 3D Point Cloud for Emergency First Responders</p> <p>Ab0011 - THE DIVERGENT DWELLING DESIGN (D3) CONCEPT FOR AFFORDABLE HOUSING IN KLANG VALLEY REGION</p> <p>Ab0492 - Smart Energy Harvesting Performance of Photovoltaic Roof Assemblies in Canadian Climate</p>
<p>Subtheme 5 Smart Environment</p>	<p>14:30 - 16:00</p>	<p>Z207</p>	<p>Andrew Agapiou</p>	<p>Ab0368 - The Status of Age-Friendly Community Research</p> <p>Ab0432 - Thermal and RGB-D Sensor Fusion for Non-Intrusive Human Thermal Comfort Assessment</p> <p>Ab0474 - The Importance of Adopting of a Sustainability Assessment Tool for Public Building Projects from Environmental Challenges perspective in Saudi Arabia.</p> <p>Ab0484 - Monitoring particulate matter emission from construction activity which causes long-term health issues and premature deaths</p> <p>Ab0505 - Assessment of Waste Generation and Diversion Rates in Residential Construction Projects in Australia</p> <p>Ab0523 - Urban development, construction and sustainability: the teaching experience of Civil Engineering Graduate Courses at Poli USP</p>

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Subtheme 3 Smart Planning, Design and Construction	11:00 - 12:30	Z209	Aaron Costin	<p>Ab0315 - Systematic Literature Review of Design Management in Construction through the Last Planner System Perspective</p> <p>Ab0327 - A vision for the future of the computer-aided tolerance management in construction based on the lessons learned from manufacturing</p> <p>Ab0331 - Managing company responsibility for mental health in the New Zealand construction industry</p> <p>Ab0348 - Digital Construction: The Readiness of Malaysian Construction Industry</p> <p>Ab0364 - Assessing design process performance of construction projects</p> <p>Ab0374 - Application of IoT in construction industry: A review of the state of the art and future opportunities</p>
	14:30 - 16:00	Z209	Saeed Talebi	<p>Ab0078 - Factors affecting time overruns On construction projects in Singapore</p> <p>Ab0148 - Enabling Factors for Adopting Industrial Building System into the Kingdom of Saudi Arabia</p> <p>Ab0031 - How industrial IoT boosts construction productivity</p> <p>Ab0405 - SIMULTAN as a Big-Open-Real-BIM Data Model - Proof of Concept for the Design Phase</p> <p>Ab0423 - Extended reality approach for construction quality control</p> <p>Ab0435 - Challenges of Implementing Emerging Technologies in Residential Modular Construction</p>

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Subtheme 6 Smart Governance, Policy and Economy	11:00 - 12:30	Z211	Nawari Nawari	<p>Ab0300 - Is your city Smart or Resilient? A case study of Christchurch, New Zealand</p> <p>Ab0317 - A Target-oriented Data Envelopment Analysis for Regional Construction Efficiency Improvement in Mainland China</p> <p>Ab0328 - Assessing the Impact of Regulatory Changes on Capital Projects in the United States</p> <p>Ab0329 - Issues and challenges of smart cities governance: A systematic review</p> <p>Ab0382- Identifying driving factors of construction megaproject success based on three Chinese cases</p>
	14:30 - 16:00	Z211	Francis Siu	<p>Ab0260 - Challenges for managing knowledge in the context of smart cities: a critical review</p> <p>Ab0398 - Organising for innovation in the digital economy: the case of AEC industry</p> <p>Ab0436 - Preliminary Evaluation of the Industry Foundation Classes (IFC) to Enable Smart City Applications</p> <p>Ab0038 - Choice of GCC Construction Market Entry Mode</p> <p>Ab0394 - An Evaluation of Methodological Issues for Assessing Impacts of Leadership on Innovative Culture of the Building Industry</p> <p>Ab0192 - Conceptual Framework for the Design of Payment Mechanism in Transportation PPPs</p>

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Subtheme 7 Smart People and Living	11:00 - 12:30	Z406	Mershack Opoku Tetteh	<p>Ab0316 - THE INFLUENCE OF ORGANIZATIONAL INFRASTRUCTURE ON ORGANIZATIONAL EFFECTIVENESS IN THE CONSTRUCTION INDUSTRY</p> <p>Ab0147 - Enabling Factors for Adopting Industrial Building System into the Kingdom of Saudi Arabia</p> <p>Ab0140 - Efficient Mechanical Commissioning of New Buildings</p> <p>Ab0150 - A review: Adoption of Building Information Modelling for Affordable Housing Delivery System</p> <p>Ab0279 - The Opportunities for Digital Conservation in Making Smarter Cities more Natural</p>
	16:30 - 17:30	Z406	Daniel Yamoah Agyemang	<p>Ab0007 - Moving towards Smart Cities: Assessment of Residential Satisfaction in Newly Designed for Public Housing in Malaysia</p> <p>Ab0253 - Barriers and motivators for electronic and mobile Health (e&mHealth) interventions in mental illness management amongst construction workers</p> <p>Ab0275 - A Review of International Construction Joint Ventures research in construction journals</p> <p>A0302 - Exploring the need for occupational psychological health management and interventions in the construction industry: An empirical study in Ghana.</p> <p>Ab0306 - Problems and Proposal of Improvement of Huifengxincun Community in Wuxi, China, Based on the Result of Post-Occupancy Evaluation</p>

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<p>Subtheme 4 Smart Utilities and Facilities Management</p>	11:00 - 12:30	Z407-408	Fabiano Correa	<p>Ab0019 - Smart Building Management and Design Decisions: BIM based Building Performance Monitoring</p> <p>Ab0293 - Creation of SMART Towns: An Experiential Learning Journey</p> <p>Ab0298 - A Conceptual Framework and Information Collection Strategy of Space-oriented BIM-based FM Solution of Hospital Projects</p> <p>Ab0320 - Using BIM for Ongoing Building Operations throughout a Building's Lifecycle</p> <p>Ab0343 - Damage Detection and Evaluation of Wooden Seismic Structural Members Using Piezoelectric Sensors and Autoencoder for Structural Health Monitoring</p> <p>Ab0366 - From Hour to Minute: Non-technical Challenges for Measuring Office Space Utilization with Smart Technologies</p>
	14:30 - 16:00	Z407-408	Evelyn, Ai Lin Teo	<p>Ab0108 - The Maximization of the Value of Solar Panel Installations</p> <p>Ab0229 - Prediction of Water Pipe Leakage Risks by using TPOT</p> <p>Ab0400 - How could we realize interoperable IoT for built environment?</p> <p>Ab0442 - Integrating maintenance and the safety of facilities: an educational facilities case study</p> <p>Ab0485 - Data Centers as the backbone of smart cities: a study of their cost and benefits</p> <p>Ab0102 - The adoption of innovative ideas from developed countries in Vietnam</p> <p>Ab0137 - Best Value Approach in Teaching Integrated Project of an Undergraduate Programme</p>

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Subtheme 8 Smart Service	11:00 - 12:30	Z409	Anne Nevgi	Ab0106 - Utilizing Millennials to Create Change in the Facility Management Industry A0270 - Blockchain-based Business Platform for Peer-to-Peer Distributed Renewable Energy Trading A0290 - Maintenance contract optimisation for smart buildings through ultrasonic sensor application and integration Ab0495- Investigating Construction Workers Health and Safety Risks in Sustainable Building Projects Ab0422 - Designing Smart Campus Landscapes: Methods for holistic campus development Ab0233 - Prediction of Construction Claim in Real Estate and Infrastructure Projects

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19 June, 2019 (Day 3)		Room	Session Chair	Papers
<p align="center">W104 Open Building Implementation</p>	<p align="center">11:00 - 12:30</p>	<p align="center">Z414</p>	<p align="center">Beisi Jia Nomura Nobu- Yuki</p>	<p>WC0086 - The Long-term Strategies of Collective Residences in Extreme Water-deficient Cities of Xinjiang: Taking Hami as An Example</p> <p>WC0023 - A Critic on the Theory and Practice of Urban Design: The Value of Open Building and Beyond</p> <p>WC0084 - A Comparative Study on Building Longevity Factors between Traditional Village and Urban Area in Pearl River Delta, China</p> <p>WC0051 - THE ASSOCIATION OF OPEN CONSTRUCTION IDEAS, «NEW ECONOMICS» AND BIM - IN UNIFIED (SINGLE) SYSTEMS. THE PROBLEM OF CONSTRUCTION JNT SYSTEMS.</p> <p>WC0062 - A method to analyze the landmark's visual impact on urban built environments using saliency-maps</p>
	<p align="center">14:30 - 16:00</p>	<p align="center">Z414</p>	<p align="center">Beisi Jia Liu Dongwei</p>	<p>W0132 - Smart Open Retrofitting</p> <p>WC0112 - How VR provides Design Freedom to People yet Maintain Control by Architects</p> <p>WC0083 - Study on the Replaceability of Building Elements in Modern Architecture Based on the Thinking of Traditional Buildings</p>

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	11:00 - 12:30	Z504	Billy Hare	<p>WC0034 - Safety and health implications from a megaproject management operating model: preliminary observations from London Tideway</p> <p>WC0047 - Impact of a mixed-media digital CDM tool on new graduates' ability to spot construction hazards</p> <p>WC0053 - Safety Compliance of the Construction Workers in Hong Kong: An Application of the Theory of Planned Behaviour Using Sociotechnical Systems Approach</p> <p>WC0059 - The Influence of Designers on Construction Health and Safety (H&S)</p> <p>WC0068 - An investigation of unsafe behaviours among Sri Lankan construction workers</p> <p>WC0073 - Uncertainty Induced Risks Influencing Safety Performance in Building Refurbishment projects: A Systematic Literature Review</p>
<p>W099 Safety and Health in Construction</p>	14:30 - 16:00	Z504	Fred Sherratt	<p>WC0002 - Cross-boundary contact, work-family conflict, sleep problems, and alcohol consumption: Experiences of South African construction professionals</p> <p>WC0004 - A dynamic perspective on the integrated design and construction decision making to improve construction work health and safety</p> <p>WC0006 - Prevention of occupational diseases – an overview of different control measures during tunnelling activities</p> <p>WC0008 - ON THE FORMALISATION OF THE CASUALISATION OF CONSTRUCTION WORK: SA AND UK PERSPECTIVES</p> <p>WC0012 - The Diversities of Human Failure in the Construction Industry</p> <p>WC0048 - Evaluating the impact of Mental Health First Aid (MHFA) training for UK construction workers</p> <p>WC0146 - THE ROLE OF CONSTRUCTION PROJECT MANAGERS (CPMs) IN CONSTRUCTION HEALTH AND SAFETY (H&S)</p>

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W098 Intelligent and Responsive Buildings	11:00 - 12:30	Z506	Derek Clemens- Croome Matthew Marson	Workshop
	14:30 - 16:00	Z506	Tong Yang Mark Worall	WC0031 - The Journey Towards Creating Intelligent Buildings WC0091 - Smart Governance In Smart Cities WC0100 - A smart low carbon district energy network renovated from the largest steelworks in Luxembourg WC0105 - Towards digital campus – improving usability of learning environments WC0143 - Linking the environment to human data for a comprehensive wellbeing assessment in the workplace WC0149 - Building integrated photovoltaic (BIPV) modelling for a demo site in Sweden based on building information modelling (BIM) platform WC0193 - Industry-Academia Collaborative Upskilling via BIM

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W070 Construction in Developing Countries	11:00 - 12:30	Z507	Tore Haugen	Workshop

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W080 Prediction of Service Life of Building Materials and Components	11:00 - 12:30	Z508	Michael Lacasse	WC0015 - Prediction of service life of building claddings using the factor method: A state of the art WC0020 - Contribution of Cracking and Spalling to the Degradation of Façade Claddings in Current Buildings WC0044 - How can involvement of FM in Lean Project Delivery contribute to the construction of Smart Cities? WC0099 - Influence of internal thermal insulation on decay risk of wooden beam embedded in masonry wall WC0148 - ETICS Condition surface resistance to water, graffiti and biocolonization WC0016 - Identifying Key Performance Indicators for Facilities Management in Hospital Buildings

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W107 Construction in Developing Countries	11:00 - 12:30	Z510	PD Rwelamila Wilco Tjihuis	Workshop
	14:30 - 16:00	Z510		WC0076 - Constructing smart urban environments by multi-cultural project-teams: Actual challenges for construction industry after a “hand-and-brain-drain” during recent crises-times WC0131 - Infrastructure Development Through Public Private Partnership (PPP) Projects in Developing Countries – the Case of Namibia as an Emerging PPP Start-up Country WC0183 - Key Lessons in the financing of public infrastructure in South Africa and the Czech Republic WC0026 - A post-occupancy evaluation on user expectation and satisfaction in university hostel environment