CIB World Buildin	ig Congress 2019		G	D
20 June, 2019		Room	Session Chair	Papers
Subtheme 8 Smart Service	11:00 - 12:30	Z206	Liyaning Tang	Ab0160 - The role of NPM initiatives in shaping Swedish public client organizations: a driving force or a contributing factor? Ab0172 - Strengthening Academic and Industry Collaboration for Improved Outcomes and Impact: Construction Management Sector Centre Model Ab0205 - Smart Infrastructure - Smart Services Focus on Non-medical Support Services in Hospitals Ab0296 - Health and Safety Considerations for Older Construction Workers: A Literature Review Ab0292 - Automated Recognition of Construction Workers' Activities for Productivity Measurement Using Wearable Insole Pressure System
	14:30 - 16:00	Z206	Ivy Wong	Ab0206 - Factors constraining effective knowledge sharing among construction project managers in South Africa Ab0323 - The evolution of the real estate sector a focus on Italian Proptech companies How the merge of property and technology is supporting smart cities Ab0336 - Digital technologies and related competences in construction management in the era of fast paced digitalisation Ab0517 - Sentiment Analytics of Social Media Data in the Construction Industry: Preliminary Study on Weibo Ab0520 - Evaluating Users' Benefits from a Crowd Management System in a Smart City Project

CIB World Buildin	g Congress 2019			
20 June, 2019 (Day 4)		Room	Session Chair	Papers
Subtheme 1 Smart Building and Infrastructure	11:00 - 12:30	Z207	Suzzane Wilkinson	Ab0501 - THE ROLE OF INTERNET OF THINGS IN DELIVERING SMART CONSTRUCTION Ab0506 - Application of deep learning 3D shape recognition approaches for Building Information Modeling element classification and feature extraction Ab0516 - Systematic Framework for Postearthquake Bridge Inspection through UAV and 3D BIM Reconstruction Ab0529 - The Perceived Effectiveness of a Secondary-Glazing Window and Households' Energy Conservation Attitudes A0530 - Supply chains of high-rise modular buildings in high-density cities A0531 - A navigation and positioning-integrated system for construction quality inspection under self-discipline of responsible personnel Ab0333 - BIM-Based Industrialized Design Solutions - Opportunities and Challenges for Healthcare Projects
	14:30 - 16:00	Z207	Chyi Lin Lee	Ab0353 - Fault Detection Strategies applied to Smart Building Supervisor System Ab0370 - Improving Urban City Resilience by Incorporating Smart Green Infrastructure Components Ab0444 - Proof-of-concept studies with humanoid robots for smart building services Ab0525 - Prospects for the use of 4D BIM for forensic delay analysis on construction projects Ab0388 - Why transform the building industry? a case for technological change in New Zealand construction A0117 - Application of green BIM-based tools for developing sustainable building proces Ab0151 - Integrated 3D Point Cloud for Emergency First Responders

CIB World Buildin	CIB World Building Congress 2019					
20 June, 2019 (Day 4)		Room	Session Chair	Papers		
Subtheme 3	11:00 - 12:30	Z209	Mieke Oostra	Ab0185 - RICE HUSK ASH AS A PARTIAL CEMENT REPLACEMENT IN RIGID HIGHWAY PAVEMENTS Ab0207 - Strength and Durability Properties of MaizeCob (Corncob) Ash Concrete Ab0189 - Strategy Discussion on Architectural Form and Space Regeneration of Courtyard in Old City of Beijing Ab0502 - Smart Cities Implementation: Challenges in Nigeria A0508 - A BIM data-driven method for producing concreting works schedules in Hong Kong housing construction Ab0524 - Smart Housing in Egypt: socioeconomic challenges and potential technological solutions Ab0526 - Smart Factory Adaptation Planning by means of BIM in Combination of Constraint		
Subtheme 3 Smart Planning, Design and Construction	14:30 - 16:00	Z209	Wafaa Nadim	Ab0424 - Proposal for a classification system supporting interdisciplinary model exchange between architecture and structural analysis Ab0434 - Modular Construction: Assessing the Challenges Faced with the Adoption of an Innovative Approach to Improve U.S. Residential Construction Ab0451 - Blockchain Applications in Support of a Smart Energy Transition: Case Study Oosterwold Ab0468 - Adoption of Building Information Modelling in Small and Medium-Sized Enterprises in Developing Countries: A System Dynamics Approach. Ab0480 - Green Building Design and the Paradox of Sustainability: Comparative Analysis of Eco-Conscious Architecture on the Environment and Design Practice Ab0486 - Communication Effectiveness in Face-to-Face and Immersive Virtual Environment: An Initial Evaluation for Construction		

CIB World Building Congress 2019				
20 June, 2019 (Day 4)		Room	Session Chair	Papers
Subtheme 6 Smart Governance, Policy and Economy	14:30 - 16:00	Z 211	Khurram Iqbal Ahmad Khan	Ab0280 - Challenges for delivering smart cities agenda in India: a systematic review Ab0419 - Complexities Associated with Smart City Projects: A Study of Real-Life Case Studies Ab0431 - Organisational structure of client teams in two successful infrastructure projects Ab0438 - SMART CITY: E-TOPIA, UTOPIA, DYSTOPIA? Ab0476 - Capacity building in the Pakistan construction sector: the paradox for small and medium-sized construction enterprises

20 June, 2019		Room	Session Chair	Papers
(Day 4)				
W104 Open Building Implementation	14:30 - 16:00	Z406	Beisi Jia Liu Dongwei	Workshop

CIB World Buildin	0 001131 2017	1	Consider Chair	Danaus
20 June, 2019 (Day 4)		Room	Session Chair	Papers
Subtheme 4 Smart Utilities and Facilities Management	11:00 - 12:30	Z407-408	Tu Kung-Jen	Ab0308 - STUDY ON UTILIZATION AREA OF PUBLIC FACILITIES FOR DIFFERENT KINDS OS ACTIVITIES Ab0344 - 3D monitoring and damage detection method for damaged building structure Ab0415 - Common Data Environment for Sustainable Smart Real Estate Portfolios A0440 - Empirical Analysis of the Major Renovation and Replacement Cost of an Office Building during its 18-year Building Life Ab0515 - Safety Proactive Control System for Multiple Crawler Cranes Hoisting in Petrochemical Construction based on CPS Ab0458 - Effective Property Maintenance Management for State-Schools in New Zealand
Subtheme 7 Smart People and Living	14:30 - 16:00	Z407-408	JoonOh Seo	Issues and Challenges Ab0122 - Occupant satisfaction and consciousness of energy use in green buildings A case study on a Miljöbyggnad certified office building in Sweden Ab0340 - Adapt or Die: Future of construction requires Individual Adaptability to technological changes Ab0393 - Moderation of Scaffolding on the relationship between Complex Questions and Cognitive Loading in Students of Construction Programs Ab0527 - Quantifying the Variability of a Living-alone Elderly's Activities of Daily Living: Clustering Analysis of Spatio-temporal Occupancy data

CIB World Buildin	CIB World Building Congress 2019					
20 June, 2019 (Day 4)		Room	Session Chair	Papers		
TG79 Building Regulations and Control in the Face of Climate Change	14:30 - 16:00	Z409	Henk Visher Edwin Chan	WC0078 - Innovations, regulations and performance optimization for a carbon free Dutch housing stock WC0126 - DIRECTIVES FOR RESILIENT AND REGENERATIVE CITIES WC0175 - Investigation of Factors Influencing the Adoption of Smart Home Energy Technology WC0180 - Exploring ICT for policy improvement of more equity use of Privately-owned Public Open Spaces WC0181 - Carbon-emission Considerations in Built Heritage Conservation to Address the Climate Change		
W113 Law and Dispute Resolution	11:00 - 12:30	Z409	Andrew Agapiou Jennifer Charlson	WC0019 - TOWARDS THE ELIMINATION OF RESIDENTIAL BUILDING STRUCTURAL FAILURES THROUGH INTERNATIONAL BEST IMPLEMENTATION PRACTICES IN NIGERIA WC0045 - Construction Drone Accidents: A worldwide review of the legal and regulatory environment WC0064 - Risk definition for construction: risk, uncertainty, hazard, opportunity WC0070 - Nudging Public Procurement rivals to bid competitively: The case of contracting firms within municipal road projects in Saudi Arabia		

CIB World Buildin 20 June, 2019		Room	Session Chair	Papers
(Day 4)		Koom	Session Chan	1 apers
Subtheme 5 Smart Environment	14:30 - 16:00	Z414	Claudio Mourgues	Ab0208 - Monitoring and evaluation in urban densification areas, in the neighbourhood scale: multicriteria analysis of the Belenzinho case study, TOD area in São Paulo, Brazil Ab0312 - Green roofs as an effective strategy for the reduction of C02 emission: A review A0361 - Applications and Opportunities for Timber Space Frames in the Circular Economy Ab0356 - Identifying the Right Climate Scale to Support Low-Energy Building Design Process Ab0489 - Managing Construction and Demolition (C&D) Waste in Australia Ab0133 - Effective usage of solar power generation and storage battery combined system
Subtheme 7 Smart People and Living	11:00 - 12:30	Z414	Morten Gjerde	Ab0050 - Managing Health and Safety in a Fast Changing Market and Organisational Culture: a case study Ab0051 - The Contrasting Approach of Contractors Operating in International Markets to the Management of Well-being, Occupational Health and Safety Ab0136 - A proposal for the innovative management of the elderly's Real Estate properties in Italy. The "Silver Lining" model. A0391 - Analysis of Pedestrian Walkability Using Computer Vision and Deep Learning Ab0437 - Factors Hindering External Stakeholder Management in Construction Projects of Developing Countries: Case Study of Ghana Ab0496 - Comparison of perceived neighbourhood sustainability and liveability among different neighborhoods in transitional China: The case of Chengdu

20 June, 2019 (Day 4)		Room	Session Chair	Papers
W122 Public Private Partnership	11:00 - 12:30	Z505	Mohan Ku maraswany Giovanni Migliaccio	WC0001 - Comparing the private sector partners' perspectives on procuring public-private partnership infrastructure projects in Ghana and Hong Kong WC0007 - Investigating the tender phase of social infrastructure PPPs in Australia: Exploration of a success factor framework WC0036 - Adverse selection, moral hazard and hold up in Indian PPP health care projects WC0080 - Effects of public supports mitigating revenue risk on Public-Private Partnerships project performances: A guide to choose among support alternatives WC0088 - Defining Public-Private Partnership from the Wittgenstein Family-Resemblance Philosophy WC0046 - Challenges of public-private partnership project evaluation: A perspective from public sector agencies WC0113 - Effects of Competition and Maturity on Indian Municipal Solid Waste Project Procurement

CIB World Building Congress 2019					
20 June, 2019		Room	Session Chair	Papers	
(Day 4)					
W122			Akintola		
Public Private	14:30 - 16:00	Z504	Akintoye	Research Brainstorming workshop	
	Partnership	Z304	Giovanni	Research Dramstorning Workshop	
rarmership			Migliaccio		

CIB World Buildin	CIB World Building Congress 2019				
20 June, 2019		Room	Session Chair	Papers	
(Day 4)					
TG90					
Information	11:00 - 12:30	Z506	Esra Kurul	Workshop	
Integration in	11.00 - 12.30	2500	Henry Oti	Workshop	
construction					
TG91 Infrastructure	14:30 - 16:00	Z506	Charlie Hargroves	Workshop	

CIB World Building Congress 2019						
20 June, 2019 (Day 4)		Room	Session Chair	Papers		
	11:00 - 12:30	Z507	Dean Kashiwagi	Workshop		
W117 Performance Measurement in Construction	14:30 - 16:00	Z507	Dean Kashiwagi Le Nguyen	WC0056 - An Exploratory Study to Identify Factors Affecting Performance of Construction Projects WC0094 - Best Value Approach in Teaching Integrated Project of an Undergraduate Programme WC0138 - How FMs can Change the Project Management in Organizations WC0151 - The adoption of innovative ideas from developed countries in Vietnam WQC0152 - Assessment of Risk Factors in the Chinese Construction Industry and the Identification of Potential Solutions for the Chinese Construction Industry WC0154 - How FMs can Change the Project Management in Organizations WC155 - Best Value Approach in Teaching Integrated Project of an Undergraduate Programme WC0137 - Best Value Approach in Teaching Integrated Project of an Undergraduate Programme		

CIB World Building Congress 2019							
20 June, 2019 (Day 4)		Room	Session Chair	Papers			
W078 Information Technology for Construction	14:30 - 16:00	Z508	Robert Amor	WC0069 - BIM-supported scanning and data capturing for Integrated Resources and Energy Assessment WC0074 - Smart Building Management and Design Decisions through Building Performance and BIM WC0101 - A human touch? How machine learning can improve project performance WC0139 - Visualization of multiple streams of BMS data in a 3D context WC0188 - Stakeholders' Perspective on Blockchain and Smart Contracts Solutions for Construction Supply Chains			

CIB World Building Congress 2019							
20 June, 2019 (Day 4)		Room	Session Chair	Papers			
W062 Water Supply and Drainage	14:30 - 16:00	Z510	Lynne Jack	Workshop			