



RISUD Annual International Symposium 2017 (RAIS 2017) – New Frontiers in Urban Development
24 – 25 August 2017

Day 1 – Thursday, 24 August 2017 (Venue: TU107)	
Registration	
08:30 – 09:00	On-site Registration (Venue: Outside TU201)
Invited Plenary Presentations – Part 1	
Chair:	Prof. Jin-guang TENG
09:00 – 09:15	Welcome Speech: Prof. Jin-guang TENG Director, Research Institute for Sustainable Urban Development
09:15 – 09:45	Plenary Presentation #1: Prof. Shuo-xian WU Great Sound is Quiet and Great Form is Blank----- An Important Philosophy for Urban Planning
09:45 – 10:15	Plenary Presentation #2: Dr Manfred EHLERS The Role of Open Data and Open Source for Sustainable Urban Development – Lessons Learned from the European URBIS Project
10:15 – 10:45	Refreshment Break Venue: Outside TU107
Invited Plenary Presentations – Part 2	
Chair:	Prof. Xiao-li DING
10:45 – 11:15	Plenary Presentation #3: Prof. Sheng-wei WANG Topic TBC
11:15 – 11:45	Plenary Presentation #4: Dr Po-heng Henry LEE A New Paradigm of Integrated Urban Water Management
12:00 – 13:30	Lunch Venue: Staff Restaurant, 4/F, Communal Building
Invited Plenary Presentations – Part 3	
Chair:	Prof. Geoffrey Q.P. SHEN
13:30 – 14:00	Plenary Presentation #5: Prof. Dan Mircea FRANGOPOL Risk, Resilience and Sustainability of Civil Infrastructure in a Life-Cycle Optimization Probabilistic Context
14:00 – 14:30	Plenary Presentation #6: Prof. Tso-chien PAN Singapore's PPP Initiative – Natural Catastrophe Data Analytics Exchange (NatCatDAX)
14:30 – 15:00	Plenary Presentation #7: Prof. Tao WANG Photochemical Air Pollution in Highly Urbanized Subtropical Coastal Regions
International Advisory Committee (IAC) Meeting (Venue: Y407)	
15:30 – 18:00	IAC Meeting of RISUD
18:30 – 21:30	Banquet (for invited speakers & participants with prior registration for dinner only) Venue: TBC

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Day 2 – Friday, 25 August 2017

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08:30 – 09:00	On-site Registration (Venue: Foyer 3/F, Block Y)				
Workshop	Workshop 1 – Urban Simulation (Venue: Y301)	Workshop	Workshop 2 – Industrialization of Construction (Venue: Y302)	Workshop	Workshop 3 – Very Large Floating Structures (Venue: Y304)
Chair	Prof. Xiao-li DING	Chair	Prof. Geoffrey Q.P. SHEN	Chair	Prof. Jin-guang TENG
09:00 – 10:30	Mr. Silas K.M. LIU Integrated 3D Simulation and Modelling Applications in Urban Planning and Design	09:00 – 09:10	Opening Address	09:00 – 11:00	Prof. Chien-ming WANG Very Large Floating Structures Technology for Sustainable and Eco-friendly Creation of Space on the Sea
	Dr. Shih-lung SHAW Human Dynamics in Urban Simulation	09:10 – 10:30	Prof. Thomas BOCK Future Urban Transformation Through Construction Industrialization and Robotics		
	Prof. Mei-po KWAN Topic TBC		Prof. Jun WANG A Review on Development of Building Industrialization in China		Prof. Roger Bruno RICHARD Industrialization of Construction: Sustainability and Individualization
10:30 – 10:50	Refreshment Break Venue: Foyer 3/F, Block Y	10:30 – 10:45	Refreshment Break Venue: Foyer 3/F, Block Y	11:00 – 11:20	Refreshment Break Venue: Foyer 3/F, Block Y
Chair	Prof. Xiao-li DING	Chair	Prof. Thomas BOCK	Chair	Prof. Jin-guang TENG
10:50 – 12:20	Prof. Xin-zheng LU Nonlinear Time-History Analysis of a City	10:45 – 12:30	Prof. Zhi-liang MA An Internet+-Based System for Optimized Management of Precast Component Production	11:20 – 12:20	Prof. Allan Ross MAGEE Hydrodynamics of Modular Floating Structures for Coastal Water and Beyond
	Mr. Michael LAU Smart Planning with the Geographic Approach		Dr. Wilson W.S. LU Design for X, Not for a High Index: The Proposition of an Optimal Level of Prefabrication Construction for Different Socio-economic Technical Contexts		
	Prof. Anthony CHEN Development of Path Flow Estimator for Multi-Modal Transportation Networks in Hong Kong		Dr. Wei PAN Life Cycle Carbon Assessment of Prefabricated Buildings: Challenges, Fundamentals, and Solutions		
			Dr Jian-guo DAI Prefabricated Geopolymer Concrete Sandwich Wall with FRP Shear Connectors for Building Construction		

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12:30 – 14:00	Lunch Venue: Staff Restaurant, 4/F, Communal Building				
Workshop	Workshop 1 – Urban Simulation (Venue: Y301)	Workshop	Workshop 2 – Industrialization of Construction (Venue: Y302)	Workshop	Workshop 3 – Very Large Floating Structures (Venue: Y304)
Chair	Prof. Xiao-li DING	Chair	Prof. Roger Bruno RICHARD	Chair	Dr You DONG
14:00 – 15:30	Prof. H.W. Edwin CHAN Urban Land Use Research: Land-Use Planning Scenarios and Socio-Economic Considerations	14:00 – 15:45	Dr. Jack C.P. CHENG BIM-supported Building Facade Fabrication	14:00 – 16:00	Ir Gordon JACKSON Delivering Energy and Transport Links to Urban Centres Using Floating Offshore Structures
	Dr. Chandrasekhar Ramalinga BHAT On the Design and Implementation of an Agent-Based Activity-Travel Demand Microsimulation Modeling System		Prof. Yun-lin LIU Evaluating the Flaws in the Grouted Splice Sleeve Connection Using the Impact-echo Method		
	Prof. Wen-zhong John SHI Urban-Informatics and 3D Smart City Model		Dr. Kin Hung Jacky CHUNG Construction 3D Printing: A New Approach to Promote Construction Industrialization		Prof. Jin-guang TENG Very Large Floating Structures: Opportunities for Innovations with Emerging Structural Materials
15:30 – 16:00	Refreshment Break Venue: Foyer 3/F, Block Y		15:45 – 16:00	Refreshment Break Venue: Foyer 3/F, Block Y	
16:00 – 17:30	Prof. Wu CHEN GNSS: Evolution Form Positioning System to Multiple Function Communication, Navigation, Surveillance, and Sensing Infrastructure	16:00 – 17:30	Closed Forum Session & Panel Discussion	16:20 – 17:30	Panel Discussion
	Prof. Tao WANG Simulation of the Impact of Nitrous Acid on Photochemistry And Air Quality in a Street Canyon Environment				
	Panel Discussion				