











Smart Infrastructure 2021

13 - 14 May 2021, HKUST / Webinar https://scc.hkust.edu.hk/

With the theme of "Smart Infrastructure", the conference enables participants to review the utilization of cutting-edge smart applications in the GBA, and how the technologies shape our cities to be more connected and sustainable. It also provides a platform for professions to discuss the possibilities of incorporating the current technologies among the 9+2 cities, fostering the region's synergic development instead of developing smart cities in silos, ultimately connecting the cities as a whole.

SMART IDEAS



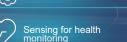




Big data analytics















EVENT DETAILS

13 - 14 May 2021 (Thursday - Friday) Date:

Time: Day 1: 9:00 - 18:00; Day 2: 9:00 - 17:00 (Hong Kong Time, GMT+8) Venue: Local: Citi Lecture Theater (LT-A), HKUST; Mainland/Overseas: Webinar

English / Mandarin Language:



Early-bird* / Members of Supporting Organisation: HK\$500 (2-day pass) / HK\$350 (1-day pass) Standard: HK\$600 (2-day pass) / HK\$450 (1-day pass)

Full-time Student: Free of Charge

* Early Bird Registration on or before 19 April 2021 (Mon)

15 CPD hours for 2 days / 7.5 CPD hours for 1 day conference are recommended

Registration Deadline: 10 May 2021 5pm



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GUEST OF HONOUR: Ir LAM Sai-hung, JP Permanent Secretary for Development (Works), Development Bureau of HKSAR



CONFERENCE ADVISOR: Ir Dr Hon LO Wai-kwok, SBS, MH, JP Functional Constituency - Engineering, Legislative Council of Hong Kong

KEYNOTE SPEAKERS* (in alphabetical order)



Ir Jimmy CHAN, JP Director of Highways, HKSAR



Ms Amy CHEUNG, JP Head of Energizing Kowloon East Office, Development Bureau, HKSAR



Dr Samuel CHUI, JP Deputy Director of Environmental Protection, HKSAR



Mr Andrew LAI, JP Director of Lands, HKSAR



Ir Ricky LAU, JP Director of Civil Engineering and Development, HKSAR



Ir Kelvin LO, JP Director of Water Supplies, HKSAR



Ir Eric PANG, JP Director of Electrical & Mechanical Services, HKSAR



Ms Mingmei ZHENG 郑明媚女士 中国城市和小城镇改革发展中心智慧低碳部主任 及智慧城市发展联盟秘书长



Prof Lei CHEN Chair Professor, Department of Computer Science and Engineering, HKUST & Director, HKUST Big Data Institute



Mr T.K. CHIANG Managing Director, CLP Power Hong Kong Ltd.



Ms Winnie HO, JP Director of Architectural Services, HKSAR



Mr Victor LAM, JP Government Chief Information Officer, HKSAR



Ir Ricky LEUNG Executive Director, Engineering & Technology, Airport Authority Hong Kong



Ir Alice PANG, JP Director of Drainage Services, HKSAR



Sr Winnie SHIU Head of Spatial Data Office, Development Bureau, HKSAR



Ms Jeny YEUNG Commercial Director & Member of the Executive Directorate, MTR Corporation Limited

SUPPORTING ORGANISATIONS



Office of the Government Chief Information Officer 政府資訊科技總監辦公室



發展局 Development Bureau



























































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PROGRAMME

Day 1: 13th May 2021 (Thursday)

Venue: Citi Lecture Theater (LT-A), HKUST

Time (HK Time, GM	T+8) Keynote Speaker	Topic / Theme
08:30 - 09:00	Registration	
09:00 – 09:30	Opening Ceremony	
Session 1 – Sha _l	ping Smart Strategies Moderator: Dr Winnie	e TANG, JP, Founder and Honorary President of Smart City Consortium
09:30 – 09:55	Mr Victor LAM, JP Government Chief Information Officer, HKSAR	Smart City Blueprint for Hong Kong 2.0
09:55 – 10:15	郑明媚女士 中国城市和小城镇改革发展中心智慧低碳部 主任及智慧城市发展联盟秘书长	中国新型智慧城市高质量发展 演讲语言: 普通话
10:15 – 10:40	Ir Ricky LAU, JP Director of Civil Engineering and Development, H	SMART, Green and Resilient Infrastructures KSAR for City of the Next Generation
10:40 – 10:45	Group Photo & Appreciation Certificate Presentation	
10:45 – 11:05	Coffee Bro	eak
Session 2 – Crea	iting Smart Environment	Moderator: Ir Paul CHAN, Chairman of The HKIE - Civil Divisio
11:05 – 11:25	Ir Jimmy CHAN, JP Director of Highways, HKSAR	Changing the Way We Build and Maintain Highway Infrastructure Through Innovation
11:25 – 11:45	Ir Kelvin LO, JP Director of Water Supplies, HKSAR	Hong Kong's Journey towards Smart Water Management
11:45 – 12:05	Ir Alice PANG, JP Director of Drainage Services, HKSAR	Rivers in the City – Smart Drainage Application
12:05 – 12:25	Dr Samuel CHUI, JP Deputy Director of Environmental Protection, HKS	Applying Smart Technologies in SAR Environmental Monitoring and Managemen
12:25 – 12:45	Ir Ricky LEUNG Executive Director, Engineering & Technology, Airport Authority Hong Kong	Building a Smart Airport City with Smart Infrastructure to Strengthen HKIA as the Leading Aviation Hub
12:45 – 13:00	Panel Discu	ssion
13:00 – 14:20	Lunch Bre	eak
Session 3 – Emb	racing Smart Living	Moderator: Prof Hong LO, JP, Great Smart Cities Institute, HKUS
14:20 – 14:40	Ir Eric PANG, JP Director of Electrical & Mechanical Services, HKS	Imaginnovating Smart Infrastructure: AR Mezzo to Macro
14:40 – 15:00	Mr T.K. CHIANG Managing Director, CLP Power Hong Kong Ltd.	Supporting a Smart City and a Smart Environment with Smart Infrastructure
15:00 – 15:20	Ms Jeny YEUNG Commercial Director & Member of the Executive Directorate, MTR Corporation Limited	Smart Mobility to Keep Cities Moving
15:20 – 15:35	Panel Discussion	
15:35 – 15:50	Coffee Bre	eak
Session 4 – Inno	vating Intelligent Infrastructure Moderator: Ir Derr	ick LEUNG, Civil and Environmental Engineering Alumni Association, HKUS
15:50 – 16:10	Mr Andrew LAI, JP Director of Lands, HKSAR	Geospatial Infrastructure for Smart City
16:10 – 16:30	Ms Winnie HO, JP Director of Architectural Services, HKSAR	Our Journey to Smart Building Design and Facilities Management
16:30 – 16:50	Ms Amy CHEUNG, JP Head of Energizing Kowloon East Office, Development Bureau, HKSAR	Kowloon East – An Ideal Platform for Piloting Innovation
16:50 – 17:10	Sr Winnie SHIU Head of Spatial Data Office, Development Bureau, F	Development of Common Spatial Data #KSAR Infrastructure in Hong Kong
17:10 – 17:30	Prof Lei CHEN Chair Professor of Department of Computer Science and Engineering & Director of Big Data Institute, HKUST	The Development of Benchmark Datasets for Smart City Application
17:30 – 17:45	Panel Discu	ssion
17:45	Day 1 En	nd ***

^{*} the conference will be conducted in English unless stated otherwise * the speakers and topics may be subject to change



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PROGRAMME

11:45 - 11:55 11:55 - 13:55

Day 2: 14th May 2021 (Friday)

	Parallel Ses	sions
Time (HK Time, GMT+8)	Venue: Citi Lecture Theater (LT-A), HKUST	Venue: Lam Woo Lecture Theatre (LT-B), HKUST
08:30 - 09:00	Registration	1
	Applications in GBA Moderator: Mr. Gary YEUNG, M.H., President, Smart City ConsortiumCivil Division	Smart Living Moderator: Prof Alexis Kai Hon LAU, Head and Chair Professor, Division of Environment and Sustainability, HKUST
09:00 - 09:15	张亚东博士 新奥能源集团智慧城市公司董事长 Topic: 演讲语言: 普通话	Dr Wenwei CHE Research Assistant Professor, HKUST Topic: A Smart Mobile Application for Predictive Health Risk Management
09:15 – 09:30	刘建平先生 未来协同技术研究院执行院长、 广东工业大学智慧能源研究中心主任、 材料与能源学院教授 Topic: 城市与能源—如何更加智慧? 演讲语言: 普通话	Mr Noah LAM Business Development Manager, Remotec Technology Limited Topic: Applying Privacy-aware Radar Technologies in Elderly Smart Living Fall Detection and in Gesture Control for Display Screens in Smart City Furniture
09:30 - 09:45	Ms Jessie CHAN Solution Architect, Digital Transaction Limited Topic: Blockchain, Sustainability, and the GBA	Mr John WONG Director, Lik On Technology Ltd. Topic: How to Build a Smart and Healthy Community?
09:45 – 10:00	Q&A Session	Mr Richard WILLDER Head of Public Policy & Government Affairs, Uber Topic: Future of Transportation
10:00 – 10:10	Q&A Session	n
10:10 – 10:30	Coffee Break	
	Smart Built Environment Moderator: Ir Clifford PHUNG, Chairman of HKUST Civil and Environmental Engineering Alumni Association	Digital Twin for Infrastructure Moderator: Prof Jack CHENG, Associate Professor of Department of Civil and Environmental Engineering, HKUST
10:30 – 10:45	Mr Pubudu ABAYASIRI Associate Director, CLP Innovation Enterprises Limited Topic: Connecting Sustainable Innovations and Digital Energy Management Needs in Buildings	Sr Paul TSUI Managing Director, Esri China (Hong Kong) Topic: Integrating 3D GIS with BIM for Smart City Development
10:45 – 11:00	Mr Daniel CHUN Founder, Airxed Technology Limited Topic: Sustainable Use of Air Conditioning with Demand Side Management of Electricity	Mr Lester CHAN Co-founder, AAIOT Group and Aura Labs Topic: The Possibilities of Device Orient Digital Twin in People-centric Spaces
11:00 – 11:15	Ms Jacqueline LEE Architect Topic: Smart Promenade Design	Ir Terence Lok Lun LUI CEO, Varadise Limited Topic: The Intelligent Management Platform for Smart Construction and Smart Facility
11:15 – 11:30	Ir Chung Hon-hei, Matthew Senior Geotechnical Engineer, Geotechnical Engineering Office, Civil Engineering and Development Department, HKSAR Topic: Application of Advanced Quadruped Robots for Geotechnical Works Inspections	Mr Shanjing ZHOU Executive Consultant, MES Group Topic: Digital Twinning for Urban Rejuvenation — Leveraging BIM and Infrared to Create a Better Post-covid Smart City
11:30 – 11:45	Ir Dr Ken CHAN Chief Technology Officer, WEC Group Topic: A Practical Framework for Smart Building Transformation	Ir Dr Bruce CHONG Director (City Advisory and Urban Sustainability), Arup Topic: Planning & Design of Enabling Infrastructure to Realize a Smart City

Q&A Session

Lunch Break

Citi Lecture Theater (LT-A), HKUST Lam Woo Lecture Theatre (LT-B), HKUST Smart Infrastructure **Big Data Analytics** Moderator: Ms Rosana WONG, Vice President of Smart City Consortium 14:00 - 14:15 Ms Rosana WONG Mr Alex WAN Topic: The Latest Developments in Terms of Smart Infrastructure Like: MiC/DfMA/QAQC BIM Blockchain Platform and Al/Robotic Autonomous Vehicles Director of Smart Solutions, WSP
Topic: Hong Kong Smart City Infrastructure In the Light of Futurisation Ir Vincent L. F. YUAN
Engineer, Bridges and Structures Division,
Highways Department, HKSAR
Topic: Smart Maintenance for a Long Span
Suspension Bridge - Tsing Ma Bridge **Mr Ringo SZE**Project Manager, Chun Wo Construction &
Engineering Co. Ltd. 14:15 - 14:30 **Mr. Kevin WAN** Co-Founder, Hong Kong RFID Limited Dr. CHUK Tin Yim, Tim Director, Tuples **Topic:** Use of IoT and Engineering Management for Trees at Slopes in Hong Kong Ir Andy WONG
Head of Digital G, Gammon Construction Limited
Topic: Digitally Connecting the Whole Life
of a Smart Infrastructure 14:30 - 14:45 Mr Christoph BURGDORFER Connected Technology Evangelist, Asteria Corporation Topic: Creating a Smart City App Store for Hong Kong Prof. Shang-Hsien HSIEH, Patrick Professor and Chairman, Department of Civil Engineering, 14:45 - 15:00 Dr Ivan SHAM Director of Research and Development (Construction), Nano & Advanced Materials Institute Topic: Collapse-Free Backfill Material National Taiwan University

Topic: Decision Support Platform for Digital Governance of Smart City Infrastructure in Response to Environmental Changes for Pavement 15:00 - 15:10 **Q&A Session** 15:10 - 15:30 Coffee Break Smart Infrastructure
Moderator: Prof Hong LO, JP, Chair Professor & Head of Civil and Environmental
Engineering & Director of GREAT Smart Cities Institute, HKUST **IoT & Automation Moderator:** Ir Connie Chan, Committee Member of HKIE – Civil Division Ir TANG Kai-yan, Alan Chief Engineer (Port Works), Civil Engineering and Development Department, HKSAR Topic: Sensor-based Monitoring and Use of Innovation Technology for Pier Maintenance 15:30 - 15:45 Mr Christian TINO TERRANEO Managing Director, ATC Austrian Technology Corporation Topic: Austrian Smart Infrastructure Solutions for Hong Kong Mr WONG Chun Fai, Jeffrey
Chief Geotechnical Engineer/Planning,
Geotechnical Engineering Office, Civil Engineering
and Development Department, HKSAR
Topic: The Second Territory-Wide Airborne
Light Detection and Ranging (LiDAR) Survey
for the Hong Kong Special Administrative Region 15:45 - 16:00 **Dr Wendy LEE** Regional Manager, HK & Macau, Autodesk Far East Limited Topic: Future of Making Smart Cities 16:00 - 16:15 **Mr Telmo GOMES** Mr Thomson LAI IT Director, LiveSense
Topic: Sustainability Cup Asia Digital Leader, AECOM
Topic: Digital City Mr Hannes SALZMANN 16:15 - 16:30 **Q&A Session** Regional Manager, Geobrugg AG
Topic: Smart Rockfall Barriers 16:30 - 16:45 **Q&A Session** 16:45 - 16:55

Closing Ceremony

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Registration Deadline: 10 May 2021 5pm



https://bit.ly/31tcHJZ

VISA / Master Card / China Union Pay Card is accepted

Enquires: Ms Connie KWONG
(Minerals Creations and Communications Ltd, Conference Secretariat)

Email: sic2021@ust.hk Tel: (+852) 3502 4983