

Challenges & Opportunities for  
Hong Kong Electronics Industry  
in the 5G Era

# 5G Symposium: How 5G Reshape the Electronics Industries

Programme Booklet

26 November 2021

Organisers



Funded by Trade and Industrial Organisation Support Fund,  
Trade and Industry Department



Venue Sponsor



Collaborating Organisations



# Programme Rundown

**Date:** 26 November 2021 (Friday)

**Time:** 2:00pm–6:00pm

**Venue:** Charles K Kao Auditorium,  
Hong Kong Science Park

**Language:** English

Time	Programme
1:30pm – 2:00pm	Registration
2:00pm – 2:05pm	<b>Welcome Speech</b> Mr Steve Chuang Executive Deputy Chairman, Federation of Hong Kong Industries Chairman, Hong Kong Electronics Industry Council
2:05pm – 2:10pm	<b>Speech by Guest-of-Honour</b> Mr Alfred Sit, JP, Secretary for Innovation and Technology
2:10pm – 2:15pm	Presentation of Souvenirs and Group Photo
2:15pm – 2:20pm	<b>Speaker Introduction</b> Mr Christopher Tse Honorary Vice President, Hong Kong Electronics Industry Council Project Chairman, Hong Kong Electronics Industry Council

Time	Programme
Speakers' Presentation Part I	
2:20pm – 2:40pm	<p><b>Speaker 1: Prof Chan Chi Hou</b>            Director, State Key Laboratory of Terahertz and Millimeter Waves            (City University of Hong Kong) and            Chair Professor of Electronic Engineering, Department of Electrical Engineering,            City University of Hong Kong</p> <p><b>Topic:</b> From Antennas to Christmas</p>
2:40pm – 3:00pm	<p><b>Speaker 2: Dr Eric K. C. Tsang</b>            Chief Technologist of the Communications Technology Division,            Hong Kong Applied Science and Technology Research Institute</p> <p><b>Topic:</b> 5G Ecosystem and Opportunities in Hong Kong</p>
3:00pm – 3:20pm	<p><b>Speaker 3: Dr K. L. Fan</b>            Director of Research &amp; Technology Development and Chief Researcher            Logistics and Supply Chain MultiTech R&amp;D Centre</p> <p><b>Topic:</b> Smart Warehouse Using 5G</p>
3:20pm – 3:40pm	<p><b>Panel Discussion</b>            Moderator: Dr Alfred Ng            Vice-Chairman, Hong Kong Electronics Industry Council            Project Committee Member, Hong Kong Electronics Industry Council</p>
3:40pm – 4:00pm	Break & Networking

Time	Programme
Speakers' Presentation Part II	
4:00pm – 4:20pm	<p><b>Speaker 4: Mr George Li</b>  Director, Marketing and Solutions Sales Department, Carrier Business Group,  Huawei Hong Kong Representative Office</p> <p><b>Topic:</b> 5G Inspires New Value to Accelerate Industry Digitalization</p>
4:20pm – 4:40pm	<p><b>Speaker 5: Mr Sam Lam</b>  Business Development Manager, China Mobile Hong Kong</p> <p><b>Topic:</b> How 5G Technology Transforms SME</p>
4:40pm – 5:00pm	<p><b>Panel Discussion</b>  Moderator: Prof Andrew Young  Executive Committee Member, Hong Kong Electronics Industry Council  Project Committee Member, Hong Kong Electronics Industry Council</p>
Closing	
5:00pm – 5:05pm	<p><b>Closing Remarks</b>  Dr Alfred Ng  Vice-Chairman, Hong Kong Electronics Industry Council  Project Committee Member, Hong Kong Electronics Industry Council</p>
5:05pm – 6:00pm	Networking & Event Ends



**Speakers**

# Prof Chan Chi Hou

**Director, State Key Laboratory of Terahertz and Millimeter Waves  
(City University of Hong Kong),  
and Chair Professor of Electronic Engineering,  
Department of Electrical Engineering,  
City University of Hong Kong**



State Key Laboratory of  
Terahertz and Millimeter Waves

香港城市大學  
City University of Hong Kong

## *Presentation topic*

From Antennas to Christmas

## *Biography*

Professor Chan Chi Hou was born in Macao to a family revering knowledge more than anything in life as his late father's formal education was cut short at 5th grade in World War II. The family moved to Hong Kong in 1965 when he was six years old and settled in Tai Po. During his formative years from 1970 to 1977, he studied at St. Francis Xavier's College while the family lived in Un Chau Street Estate in Cheung Shan Wan. Chi went to the US for his tertiary education in 1978. After receiving his bachelor's and master's degrees from the Ohio State University in 1981 and 1982, Professor Chan went to the University of Illinois at Urbana-Champaign (UIUC) to study under the tutelage of Professor Raj Mittra.

He received his Ph.D. in 1987 and stayed at Illinois as a Visiting Assistant Professor in the Department of Electrical and Computer Engineering (ECE) for two years. Before joining CityU in 1996, Chi was a tenured Associate Professor in the Electrical Engineering Department at the University of Washington. He received the Presidential Young Investigator Award from the US National Science Foundation in 1991 and the Distinguished Young Scholar, Joint Research Fund for Hong Kong and Macao Young Scholars, from the Natural Science Foundation of China in 2004. He was conferred an Honorary University Fellowship by the Open University of Hong Kong (now Hong Kong Metropolitan University) in 2016. Professor Chan is a Fellow of IEEE (2002), a recipient of the IEEE Antenna and Propagation Society Harrington-Mittra Award in Computational Electromagnetics (2019) and Distinguished Alumni Award, ECE at UIUC (2019).

# Dr Eric K. C. Tsang

*Chief Technologist of the Communications  
(COM) Technology Division,  
Hong Kong Applied Science and  
Technology Research Institute*



**ASTRI**  
香港應用科技研究院

## **Presentation topic**

5G Ecosystem and Opportunities in Hong Kong

## **Biography**

Dr Eric K. C. Tsang is a Chief Technologist of the Communications (COM) Technology Division at the Hong Kong Applied Science and Technology Research Institute (ASTRI). He has over 15 years' experience in the wireless communications and machine learning, leading a team of 80+ engineers in the research and development of the 5G communication systems and related applications.

Dr Tsang has extensive experience in building team's core competencies and enabling new ecosystems. He is collaborating with some mainstream chipset companies and some large ODMs to develop successful 5G infrastructure solutions based on Open-Radio Access Network (O-RAN) architecture. He has also enabled some large enterprises to transfer and use the 5G technologies to their improve operations, such as deploying the 5G automated guided vehicles (AGV) system in the smart factories.

Dr Tsang had been a post-doctoral researcher in Hong Kong University of Science and Technology in 2007 working on the areas of computer vision, machine learning and artificial neural networks. He received B.Eng., M.Phil., and Ph.D. degrees in Electronic and Computer Engineering from the Hong Kong University of Science and Technology in 2001, 2003 and 2007, respectively.



# Dr Ka Lun Fan

*Director of Research & Technology  
Development and Chief Researcher,  
Logistics and Supply Chain  
MultiTech R&D Centre*



Logistics and Supply Chain MultiTech R&D Centre  
物流及供應鏈多元技術研發中心

## **Presentation topic**

Smart Warehouse Using 5G

## **Biography**

Dr Fan is a Director (R&TD) and Chief Researcher at LSCM. He has a vast experience in research & development of various robots and/or robotic systems in logistics and warehouse applications, wall climbing robots to carryout NDT/NDE and window cleaning tasks as well as surgical robots. Recently, Dr Fan has been developing robotic systems/devices for elderly applications.

Dr Fan published over 30 peer-reviewed articles and holds numerous patents in US, EU and China.



# Mr George Li

*Director,  
Marketing and Solutions Sales Department,  
Carrier Business Group,  
Huawei Hong Kong Representative Office*



## **Presentation topic**

5G Inspires New Value to Accelerate Industry Digitalization

## **Biography**

Mr George Li is the Director of Marketing and Solution Sales Department at Huawei Hong Kong Representative Office. He oversees the overall operator's market planning and sales of the Huawei solutions in Hong Kong and Macau.

Mr George Li holds a Master's degree in Control theory and Control Engineering from Northeastern University in China.

Mr George Li joined Huawei in 2009 and served various positions in different countries for over 12 years. Mr George Li possesses rich experience in the criteria of marketing and solution sales and he was appointed to be the Director of Hong Kong Marketing & Solutions Sales Department in July, 2021.

As a solution sales professional, Mr George Li led the carrier network solution sales team of Hong Kong and Macau to offer network design and consultancy services to fixed and mobile carriers in the region. He successfully built a team with strong business sensitivity and technical capability which helped customers incorporate technologies such as Wired/Wireless Connection, Internet of Things and Big Data Analysis etc. effectively into their business operation.

# Mr Sam Lam

*Business Development Manager  
China Mobile Hong Kong*



中国移动  
China Mobile

## *Presentation topic*

How 5G Technology Transforms SME

## *Biography*

As a 5G spokesman in China Mobile, Sam helps China Mobile to promote 5G application in Hong Kong. He mainly focuses in Smart City and IoT application. With the rich resources from sister company in China, China Mobile can provide various 5G solutions to accelerate the development of smart city in Hong Kong.

Prior to China Mobile Sam worked in semi-conductor industry.

5 + year experience in telecom industry

10+ years in IoT development



# Project Information



香港工業總會

**FHKI** Federation of  
Hong Kong Industries



Hong Kong  
**Electronics Industry**  
香港電子業總會 Council

香港工業總會轄下  A FHKI Council

Established in 1960, Federation of Hong Kong Industries ("FHKI") is the voice of Hong Kong's industrial and business communities to promote and foster the interests of the industries. The Federation comprises 32 industry groups with members from various manufacturing and associated businesses, who share a common vision to spearhead the advancement of Hong Kong's industry. Through policy advocacy, professional business support services and cross-sector collaboration, FHKI strives to build a dynamic industrial ecosystem to take forward transformation and re-industrialisation of Hong Kong's economy, sparking new business opportunities and charting diverse paths for the younger generation.

The HKEIC was established in 1988, under the auspices of the FHKI. The Council is set up to represent members' voice with the aim to provide advice for Government policy formulation regarding improvement of the business environment. Opening to all companies in the electronics business in Hong Kong, the Council seeks to attract as wide a spectrum as possible of Hong Kong companies with an interest in this field, ranging from manufacturers, exporters, importers to raw material and equipment suppliers.

5G

## ***About the Project - Challenges & Opportunities for Hong Kong Electronics Industry in the 5G Era***

Organised by the FHKI and HKEIC and funded by Trade and Industrial Organisation Support Fund of the Trade and Industry Department, HKSAR Government, this 15-month project aims to assist Hong Kong electronics industry players to tap into the full potential of 5G and cope with the challenges behind. An in-depth research study, high-level symposiums, visits, and information sharing featuring 5G technology intelligence would be included in this project.



**Project  
Committee**

# Project Chairman



**Mr Christopher Tse**

*CEO*

Musical Electronics Ltd  
*Honorary Vice President*  
Hong Kong Electronics  
Industry Council

# Project Committee Members



**Dr Alfred Ng**

*Director*

Suga International  
Holdings Ltd  
*Vice-Chairman*  
Hong Kong Electronics  
Industry Council



**Mr Eugene Chan**

*Managing Director*

Man Yue Technology  
Holdings Ltd

*Executive*

*Committee Member*

Hong Kong Electronics  
Industry Council



**Mr Herbert Ng**

*Managing Director*

Globaltec Electronics Ltd  
*Executive*

*Committee Member*

Hong Kong Electronics  
Industry Council



**Prof Andrew Young**

*Associate Director (Innovation)*

Sino Innovation  
Laboratory Ltd

*Executive*

*Committee Member*

Hong Kong Electronics  
Industry Council



# Acknowledgment

## Organisers



香港工業總會  
**FHKI** Federation of  
Hong Kong Industries



Hong Kong  
**Electronics Industry**  
香港電子業總會 Council

香港工業總會轄下  A FHKI Council

Funded by Trade and Industrial Organisation Support Fund,  
Trade and Industry Department



工商機構支援基金  
Trade and Industrial Organisation Support Fund

## Venue Sponsor



## Collaborating Organisations



HONG KONG ELECTRONICS &  
TECHNOLOGIES ASSOCIATION  
香港電子科技商會



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香港電子業商會

Any opinions, findings, conclusions or recommendations expressed in this material/event (or by members of the project team) do not reflect the views of the Government of the Hong Kong Special Administrative Region or the Vetting Committee of the Trade and Industrial Organisation Support Fund.

# Questionnaire

Thank you for attending the 5G Symposium: How 5G Reshape the Electronics Industries. We appreciate your feedback about this symposium so we can improve the next one. Responses from this questionnaire will be used for evaluation and improvement purpose only.

Please take a moment to complete the online questionnaire by scanning the QR code or visiting:



<https://bit.ly/3H7NgBo>

Event highlights, videos and presentations of the Symposium will be uploaded to the FHKI post-event webpage shortly. Stay tuned.



[www.industryhk.org](http://www.industryhk.org)