



The Institution of  
Engineering and Technology

The Institution of Engineering and  
Technology Hong Kong  
工程及科技學會香港分會

## Chairlady's Message

Happy Women's Day! (And Happy Pi Day for us Mathies!)

With 170,000 members worldwide, the IET is a professional home to inspire, inform and influence the global engineering community, supporting technology innovation to meet the needs of the society. By engaging with underrepresented groups, not only are we increasing the chance of those groups entering this exciting profession, we are encouraging other engineering organizations to do the same, so that impactful changes can occur. Equality, Diversity and Inclusion (EDI) has, therefore, been a crucial part of the IET policies, and we have recently launched the new EDI Strategy that sets out the areas we focus on, with a global reach.

Of the many diversity strands, our efforts on gender diversity had already made great impacts, bringing 9% of women working in the engineering and technology field in the UK to 12% with the #9PercentIsNotEnough Campaign within just a few years. The YWE recognizes outstanding young woman engineers who have made valuable contributions to the society through their engineering achievements and inspirations to the younger generations. Being an award-winning initiative itself, the YWE has served the engineering community in the UK for more than 40 years.

Locally, 60% of the parents would encourage boys to pursue a career in technology, but only 30% would encourage girls to do the same. Young ladies make up around 30% of an engineering class in a local college, while they are doing as well as their male classmates in grades. There're around 20% women making up the local engineering and technology workforce, and even fewer in the management role. STEM or mechanical toys are still commonly labeled as "Gifts of Guys".

Few years ago, the IET Hong Kong has launched STEM 4 Girls Programme and Women In Science and Engineering (WISE) Programme to help girls to find role models in female engineers and to encourage them to embrace technology. The YWE was launched in Hong Kong as well in the Year 2019 to complete the cycle and foster women engineers' professionalism, dedication, enthusiasm and leadership in the local community.

All our winners and finalists are fantastic role models and strong advocates of women in STEM. They act as the ambassadors for IET to promote Gender Diversity in the Hong Kong industry, encouraging girls to discover their STEM talents and to pursue their dreams in the technology world. It is also their duty to share with the younger generations the spirit of professionalism and the essence of social responsibility (aka the IET Spirit).

Moreover, we have lots of fascinating activities in store for them. They had already started their roles as the Big Sisters for the STEM 4 Girls Program and shared with over 100 secondary school

students about what it's like working as young woman engineers and how they found their path to become successful in their respective fields. They also discussed in the YMS Women's Day Special 2021 concerning gender issues in the industry.

Also marked this year's Women's Day is Hong Kong's very first global Hackathon #GirlsInAI, organized by a young girl of 14 years old. We are supporting this event as well as other EDI efforts of our fellow organizations, and it was extremely emotional to witness the achievements of all the young girls who participated in this event.

We hope that our works in gender diversity can help set the stage for broadening our EDI efforts in Hong Kong, and to make greater impact and reach wider and more inclusive audiences. We also wish that there will be no more need to celebrate "Women In Engineering" one day, because it would be as common for girls to excel in engineering and technology as boys.

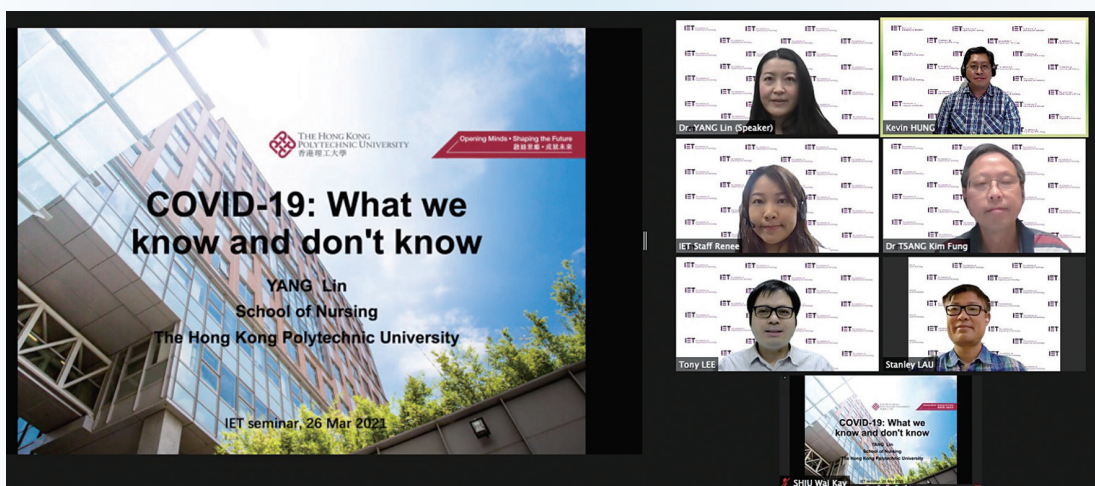


*Justina CY Ho*  
*Chairlady of Session 2021, The IET Hong Kong*  
*Council and Board Member, The IET*  
*March 2021*

## ECS Webinar: COVID-19: What we know and don't know

COVID-19, a contagious disease caused by SARS-CoV-2, has quickly spread worldwide, infecting over 100 million people and claiming over 2 million deaths since December 2019. To inform members of the latest development and measures, the Electronics and Communications Section (ECS) has held a webinar about COVID-19 on 26 March 2021. Over 60 participants joined the event. The speaker, Dr. Yang Lin, Associate Professor in School of Nursing, the Hong Kong Polytechnic University, shared about the evaluation of different COVID-19 control measures with a special focus on interdisciplinary studies between engineering, biological and medical researchers. She also discussed the evidence of viral transmission, dominant transmission routes in the healthcare and community settings, as well as impacts of mass vaccination. Dr. Yang also shared about infectious disease epidemiology. The webinar has aroused the interests of participants, who actively engaged in discussion after the talk. ECS would like to take this opportunity to thank Dr. Yang Lin for her insightful sharing.

*Reported by Chris Lam*  
*Electronics and Communications Section*



*Group Photo with Speakers and OC*

## Webinar on Building Information Modelling (BIM) Opportunities

The webinar was jointly organized by IET Hong Kong – MIES section, HKIE – MIS division, VTC-Engineering discipline, The Open University of Hong Kong – School of Science and Technology, Institute of Industrial and Systems Engineers and Building Research Establishment (BRE) on February 26, 2021. 276 persons participated the webinar via the zoom broadcasting. In the beginning, Ir Prof. PK Yuen, the President of HKIE delivered the welcoming speech and Ir Dr. Tony Lee (assistant professor of OUHK and committee member of IET-ECS) presented the opening speech and introduced three distinguished speakers' background. The first speaker, Mr Simon Ng, BIM director of China Overseas Holding Ltd shared the BIM – 10 important things we should know and his experience when implementing the BIM. Then the second speaker, Mr. David Fung from ACID shared the IM-Common Data environment (CDE), BIM objects speaker and demonstrated the use of CDE. The last speaker Bryan Mainwaring (BIM Expert, Building Research Establishment BRE) from UK introduced



From Left to Right: Dr. Ernest Tsang (OUHK), Ir Dr. Eric Liu (HKIE-MIS division and VTC), Mr. Coleman Tse (President of IISE Hong Kong Chapter), Mr Simon Ng (Speaker), Ir Dr. SL Mak (IET Hong Kong)

BIM certification (ISO 19650). The Q&A session was then chaired by Ir Dr SL Mak (Hons Secretary of IET Hong Kong). At the end of webinar, Ir Dr. Eric Liu represented all organizers thanks to all speakers to share their valuable experience and all participants to join the webinar.

Reported by SL Mak  
Manufacturing and Industrial Engineering Section

## Webinar on Application of Algal Technologies for Sewage Treatment



From Left to Right: Ir Dr Jimmy Li (Chairman of IET-MIES & Hon Treasurer of HKIE-MIS division), Mr. Stanley Ng (Executive Director of Child Cares Foundation), Ir Prof. Louis Lock (Vice President of Institute of Measurement and Control), Prof KC Ho (Speaker), Ir Dr SL Mak (Hons Secretary of IET Hong Kong)

The webinar was jointly organized by IET Hong Kong – MIES section, HKIE – MIS division, CAI division and the institute of measurement and control, Hong Kong Section on March 11, 2021. 199 persons participated the webinar via the zoom broadcasting. The speaker, Prof HO Kin-chung, BBS, JP was the former Dean of School of Science & Technology and Ng Chun Man Professor in Environmental Science & Conservation of the Open University of Hong Kong (OUHK). After retirement from OUHK, he established the Polar Research Institute of Hong Kong (PRIHK) and has served as Director of the Bauhinia Research Station in Svalbard Isles of the Arctic region. Prof Ho introduced new concepts in algal treatment and discuss the economic/environmental potentials of future development of algal technology and the prototype was installed in Olympian City by his research team. Prof Ho also compared the difference between current sewage treatment and algal treatment and indicated the new trend of sewage treatment.

Reported by SL Mak  
Manufacturing and Industrial Engineering Section



## Experience Sharing by YWE Winners and Awardees

**Date: 13<sup>th</sup> March 2021 (Saturday)**

**Time: 12:00 to 17:00**

**Platform: Zoom**

An engineer, as perceived by school children, has always been of a middle-aged man in dirty overalls and probably most distinctively, wearing a hard hat. These stereotypes are still alive and well amongst the general public. While we pride ourselves of the rapid advancement of technology and social progress in the 21st century, yet, only several years ago, a survey by the students of the University of Hong Kong had found that, of the students studying engineering, just shy of 20% of the undergraduates are women; and of research postgraduates, they make up only a little less than 30%. As one of the largest engineering institutions, the IET embraces gender diversity and promotes inclusion and equality of opportunity. IET staff and volunteers, reinforced by IET values, are committed to improving the situation.

From the "STEM 4 Girls" mentorship programme in 2018, to the "W.I.S.E." conference in 2019, IET Hong Kong has been actively raising awareness of women in Science and Engineering, and helping young girls and women realise the exciting, creative and rewarding career option engineering would provide.

And in 2020, bringing the award winning initiative with over 40 years of history from the UK, the Young Women Engineer of the Year Award (YWE) also became the first award in Hong Kong dedicated to women engineers for their individual excellence, valuable contributions to the society through their engineering achievements and inspirations to the younger generations.

It is an honour for the Continuing Professional Development (CPD) team to have four of the five winners and awardees of the YWE awards to share their stories and journeys with us on 13th March 2021. An audience of total 80 joined the 5-hour sharing event that day, of which 43 were members of the IET.

The event began with an introduction to the IET and the YMS by Mr Andrew Chiu, the CPD team coordinator. Then, the four YWE award winners were invited to come online individually and share their respective stories: First with Ir Samantha Kong, YWE Open Category winner, then, sharing from Ms Melody Wong

followed by Ms Winky Lui, both YWE Finalist and Merit Award winners, and finally sharing by Ms Jaimi Siu, YWE CEng Category winner.

They each shared the companies and places they have worked in, and the projects they have worked on during those periods. Throughout their careers, they never ceased in enriching themselves with various kinds of further studies and volunteering in numerous organisations. With the insights they have got and the lessons they have learnt from every step in their career, they turned those into career planning and even life advice for the audience. Each and every one of the speakers had inspired and encouraged fellow engineers to not be afraid of new endeavours and stepping out of our comfort zones in their respective ways. Confused or discouraged at first, plenty of the audience asked questions of many aspects, from selecting engineering majors, to professional chartership, to technical specifics, and many more. The speakers were very thoughtful to have answered them all in great detail and have surely made them realise that the engineering industry is in fact, equally full of opportunities for women.

It was most definitely a precious opportunity to have the YWE awardees share their journeys with fellow engineers. The CPD team would like to thank Samantha, Melody, Winky and Jaimi again for sharing their experiences and giving valuable support to IET events, and congratulations to all of them on winning the YWE awards.

There is only so much the government and engineering firms can do to help with the conditions women face in the engineering industry. It owes to each and every individual in the industry to contribute in raising awareness of women in science and engineering, and improving and changing the working environment to a better, and women-friendly one.



Photos of the webinar can be found by scanning the following QR code:

*Report by Andrew C.Y. Chiu  
Continuing Professional Development team coordinator (2021)  
Younger Members Section*

## [Co-organising Event] Technical Webinar: Build a scalable virtual learning platform with AWS AI services

Co-Organized by:	Informatics and Control Technologies Section, IET Hong Kong; The Department of Information Technology, Hong Kong Institute of Vocational Education (Lee Wai Lee)
Date:	22 April 2021 (Thursday)
Time:	19:00 – 20:00
Venue:	Online Webinar
Fees:	Free of charge
Language:	Cantonese
Registration:	<a href="http://www.theiet.org/hongkong">www.theiet.org/hongkong</a>
Enquiry:	Mr. Joe Wan, <a href="mailto:joejoejoewww@hotmail.com">joejoejoewww@hotmail.com</a>

### Programme Highlights:

Building scalable applications with speech, text, search, and chatbot intelligence can be difficult. In this session, you learn how AWS Machine Learning Hero Cyrus Wong built All Screens, an online education solution for teachers to engage with students in a meaningful way using AWS AI services such as Amazon Kendra, Amazon Comprehend, Amazon Recognition, and Amazon AI language services.

### Speakers:

Mr Cyrus Wong is Data Scientist of Cloud Innovation Centre at the IT Department of the Hong Kong Institute of Vocational Education (Lee Wai Lee). He has achieved all 11 AWS Certifications and actively promotes the use of AWS in different media and events. His projects received four Hong Kong ICT Awards in 2014, 2015, and 2016, and all winning projects are running solely on AWS with Data Science and Machine Learning. One of the winning projects is "AWS Cloud Lab Environment," an open-sourced project for educators to create tailor-made lab environments on AWS.

Miss Law Mei Ching Pearly Jean, is year 1 Higher Diploma in Cloud and Data Centre Administration, The Department of Information Technology, Hong Kong Institute of Vocational Education (Lee Wai Lee). She is the youngest AWS DeepRacer Player, the youngest AWS Community Builder and the youngest AWS Academy Accredited Educator.

## Technical Webinar: Engineers fighting COVID-19 and infectious diseases - development of an automated diagnostic system

Organized by:	Electronics and Communications Section Committee, IET Hong Kong
Date:	23 April 2021 (Friday)
Time:	19:00 – 20:00
Venue:	Online Webinar
Speakers:	Dr. Parker Tsang & Mr. Sunny Chu, Associate Directors of Engineering, Emerging Viral Diagnostics (HK) Limited
Language:	English

Registration:	<a href="http://www.theiet.org/hongkong">www.theiet.org/hongkong</a>
Fees:	Free of charge
Enquiry:	<a href="mailto:khung@ouhk.edu.hk">khung@ouhk.edu.hk</a>

### Programme Highlights:

Hong Kong is frequently posed with pandemic threats from a wide variety of respiratory diseases with newly emerging and contagious viral pathogens. The recent outbreak of COVID-19 has again given a real case scenario to the general public and the world how catastrophic the impacts a pandemic can bring. Pandemic will repeatedly pose threat to the community. Every time, it would cause numerous deaths and tremendous pressure on the public healthcare system. Engineers can contribute their part and provide solutions. One aspect is the development of rapid diagnostic systems. Such a system would be useful for frontline medical practitioners to quickly detect the pathogens and make the most appropriate decision for the patients: whether to provide a treatment or whether a patient requires hospitalization or isolation. This talk will discuss the development of a rapid diagnostic system in Hong Kong. Initiated by the Respiratory Virus Research Foundation, the system has been tested in various clinical evaluation, and is currently transitioning to the mass production phase. In this talk, the speakers will share their experience in the system development, highlighting the technical innovation as well as challenges.

### Speakers:

Dr. Parker Tsang is Associate Director of Engineering in Emerging Viral Diagnostics (HK) Limited. He is a key project member in the development of a rapid diagnostic system at The Hong Kong Polytechnic University. His R&D interests include medical devices, SpineScan3D, microfluidics, and prototype building. He has also served as an engineer in Siemens Diagnostics (HK) Limited. Dr. Tsang received his B.Eng. followed by Ph.D. from the Newcastle University, United Kingdom, and M.Sc. in biotechnology from the Hong Kong University of Science and Technology.

Mr. Sunny Chu is experienced in project management and new product development. He received B.Eng. and MPhil. in Electronic Engineering from The Chinese University of Hong Kong. Since graduation, he has been focusing on biomedical product development. Mr. Chu has developed different medical related devices in different institutes and private companies, including the Faculty of Medicine of The Chinese University of Hong Kong, and Applied Science and Technology Research Institute (ASTRI). He was also involved in the development of diagnostics devices in three different molecular diagnostics companies in Hong Kong. Currently, he is the Associate Director of Engineering in Emerging Viral Diagnostics (HK) Limited.

## Webinar: New Era of Automation

Organized by:	Younger Members Section Committee, IET Hong Kong
Date:	24 April 2021 (Saturday)
Time:	16:00 – 17:15
Medium:	Online Webinar (Zoom)
Speaker:	Mr. Carlos Lee, O-Matic Intelligent Robot Limited
Language:	English
Registration:	<a href="http://www.theiet.org/hongkong">www.theiet.org/hongkong</a>

Fees: Free of charge  
 Enquiry: Angel Yeung, [snyeung37@gmail.com](mailto:snyeung37@gmail.com)

Automation in industrial applications has been maturely developed throughout the decades. With the help of Computer Numerical Control (CNC) machines, manufacturing processes are now safer, faster and more efficient. While automation in the manufacturing industry is very well known, the benefits brought by automation are not limited in the industrial sectors. In fact, automation also contributes to the betterment in the construction industry.

Technology in robotics provides the construction industry with numerous advantages. With the goal of automating processes and thus increasing productivity, robotics are being used to get work done quicker, lowering costs and achieving precision.

O-Matic Intelligent Robot Limited is a Hong Kong-owned private enterprise. Focusing on the development of industrial and construction robots through intelligent technologies, the company has many mature products such as cable robots, transportation robots, welding robots, grinding robots, and more. The CPD team is honoured to have Mr. Carlos Lee, CEO of O-Matic Intelligent Robot Limited, to introduce the advanced applications of robots in the construction industry.

## Technical Webinar on LiDAR Sensing Technology and Application

Organized by: Management Section Committee, IET Hong Kong  
 Date: 13 May 2021 (Thursday)  
 Time: 19:00 – 20:00  
 Venue: Webinar  
 Language: Cantonese  
 Registration: [www.theiet.org/hongkong](http://www.theiet.org/hongkong)  
 Fees: Free of charge  
 Enquiry: Ms. Joanne Tse, [joanne.wie@gmail.com](mailto:joanne.wie@gmail.com)

Create and verify BIM (As-built model) that correspond to the final built condition, which may be aided by methods including but not limited to laser scanning and field capturing.

LiDAR sensing technologies is one of the verification tools for BIM process. This webinar will introduce you the LiDAR sensing technologies and their applications such as the mobile mapping, robotic and autonomous driving etc. This webinar will also provide insights on how LiDAR technology helping project engineers to track the progress of construction work Periodic tracking the planned schedule against the rapid scanning of as-built status of the construction work by the LiDAR system can help project engineers to monitor the project performance in order to minimize the risk of delay on the construction workflow.

It will cover the following: -

- What is LiDAR sensing technology and how does it work?
- LiDAR applications
- Progress monitoring of construction working using LiDAR Mobile Mapping System.

## Speakers:

Mr. Alex Luk is a laser technology professional with over 20 years of practical experience. Currently, Alex is a co-founder and technical director of Modetech Laser Technology Limited with overall accountability and responsibility for the technical solutions and business development of laser products worldwide.

## Supporting Event: Build a Secure Cyberspace 2021 “Be a Smart eCitizen Beware of Cyber Pitfalls” Webinar

Organized by: The Hong Kong Computer Emergency Response Team Coordination Centre (HKCERT), the Office of the Government Chief Information Officer (OGCIO) and the Hong Kong Police Force (HKPF)  
 Supported by: IET Hong Kong  
 Date: 14 May 2021 (Friday)  
 Time: 14:30 – 17:30  
 Venue: Webinar  
 Enquiry: 2788 5704  
 Email: [judysmliu@hkpc.org](mailto:judysmliu@hkpc.org)  
 Website: <https://www.hkcert.org/event>  
 Registration: <https://www.hkcert.org/event/build-a-secure-cyberspace-2021-be-a-smart-e-citizen-beware-of-cyber-pitfalls-webinar>

The Hong Kong Computer Emergency Response Team Coordination Centre (HKCERT), the Office of the Government Chief Information Officer (OGCIO) and the Hong Kong Police Force (HKPF) jointly organise an information security webinar on “Be a Smart eCitizen Beware of Cyber Pitfalls” Webinar.

For event poster, please download from [Here](#)

## Supporting Event: Artificial Intelligence - Transforming Products Made and Impacting Safety and Reliability

Organized by: CAiRS  
 Supported by: IET Hong Kong, HKSTP, HKIE  
 Date: 18 May 2021 (Tuesday)  
 Time: 10:00 – 17:00  
 Venue: Function Hall, 1/F, 12W, 12 Science Park West Avenue, Hong Kong Science Park  
 Fees: Free of charge  
 Enquiry: [info@cairs.hk](mailto:info@cairs.hk)  
 Website: [www.cairs.hk](http://www.cairs.hk)

It is the Technical Seminar organized by CAiRS with the topic “Artificial Intelligence – Transforming Products Made and Impacting Safety and Reliability”. We would invite academic and industrial representatives to deliver a speech about the latest Artificial Intelligence innovation on Reliability and Safety which impacts different sectors of the industry. Around 20min Show Cases and Laboratory Tour would be arranged in the afternoon session and at the end of the seminar.

Look and feel what the latest Artificial Intelligence would impact daily life on reliability and safety. The laboratory tour would let our guests see the demonstration of our advanced testing equipment, including our most advanced Nvidia supercomputer. Due to limited seats provided, it would be on a First-come, first-served basis.

For event poster, please download from [Here](#)

For registration, please click [Here](#)

## Technical Webinar: Enhancing Escalator Safety with the Use of Optical-Fiber Sensing Technology and AI

Organized by:	Electronics & Communications Section Committee, IET Hong Kong
Co-organized by:	Manufacturing & Industrial Engineering Section Committee, IET Hong Kong
Date:	28 May 2021 (Friday)
Time:	19:00 – 20:00
Venue:	Online Webinar
Speakers:	Mr. William Au Senior Electrical and Mechanical Engineer Electrical and Mechanical Services Department (EMSD) Government of the HKSAR
Language:	Cantonese (supplemented with English materials)
Registration:	<a href="http://www.theiet.org/hongkong">www.theiet.org/hongkong</a>
Fees:	Free of charge
Enquiry:	<a href="mailto:khung@ouhk.edu.hk">khung@ouhk.edu.hk</a>

### Programme Highlights:

Reliable and safe operation of escalators is crucial for every metropolitan city. Sensing systems making use of optical-fibers can effectively and reliably monitor the operation of an in-service escalator to tell if there are impending equipment failures or breakdowns, capable of giving advance notices for corrective measures to enhance reliability and availability of escalators. A novel design of optical-fiber sensing and data analytic approach capable of early identification of faults, including brake malfunction, step dislocation due to jamming of foreign objects, defective step rollers and handrails has gone through its proof of concept testing. Abnormal noise signatures for an escalator in a metro-station have been recorded and analysed to signify impending failures of escalator components, thus enabling early rectification of the defective parts and eliminating of passenger injury or equipment damage due to failure of the defective component. Coupled with 1D-CNN machine learning, the system forms an important platform for advancing the capability of real time monitoring and preventive maintenance that greatly helps relieve the burden of servicing personnel for escalators. Such intelligent system has currently been implemented at 8 nos. of escalators for trial use.

Speaker: Mr. William Au is the Senior Electrical and Mechanical Engineer of the Electrical and Mechanical Services Department (EMSD), Government of the HKSAR responsible for regulating aerial

ropeways, lifts and escalators in Hong Kong. He graduated with 1st Class Honours in Bachelor of Mechanical Engineering, further obtained his Master of Business Administration, and passed his Master of Science in Building Services Engineering with Distinction from the University of Hong Kong. He possesses over 18 years of diversified experience in operation & maintenance of electrical and mechanical systems, energy saving & innovation technologies, project management, regulatory control, incident investigation and prosecution.

## BIM Forum 2021 – Digitize Infrastructure through Modeling Technology

Organized by:	Informatics and Control Technologies Section, IET Hong Kong
Date:	12 June 2021 (Saturday)
Time:	10:00 - 13:30
Venue:	Webinar
Fees:	Free of charge
Language:	English (unless specified)
Registration:	<a href="http://www.theiet.org/hongkong">www.theiet.org/hongkong</a>
Enquiry:	Mr. Chu Yu For, Email: <a href="mailto:steve2up@gmail.com">steve2up@gmail.com</a> Website: <a href="http://bimforum.ictconference.hk">bimforum.ictconference.hk</a>

This BIM Forum 2021 is a great platform for participants to explore the latest technologies and applications in Building Information Modeling (BIM), which fundamentally changed the Construction Industry nowadays.

### Programme Highlights:

This forum aims to provide a platform for the government officials, university researchers, and major industry professionals to share the views on the government policy, the latest development and the newly developed applications in Building Information and Modelling (BIM) in different aspects. The theme of this year BIM Forum is "Digitize Infrastructure through Modeling Technology".

Online Registration: [www.theiet.org/hongkong](http://www.theiet.org/hongkong)

#### IET Hong Kong

Administration: [admin@theiet.org.hk](mailto:admin@theiet.org.hk)

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- Proficiency in English

For more details, please visit the official website:

<https://dualmsc.seng.ust.hk/>



Supporting Organisations for Programme Promotion



How to enrol:   
<https://bit.ly/2VY6VOQ>



Application Deadline

MPhil(CBME)

**1 Jul 2021**

MPhil(CIVL), MPhil(CSE),  
MPhil(ECE), MPhil(MECH):

**15 Jul 2021**