Symposium on Innovation & Technology 創新科技論壇

Unlocking Possibilities: Harnessing AI for Innovation in Consumer Electronics
結合人工智慧 創造無限可能

Date 日期 : 13 / 10 / 2023 (Friday 星期五)

Time 時間 : 10:30AM – 3:45PM

Venue 地點 : Theatre I, Hong Kong Convention and Exhibition Centre
香港會議展覽中心演講廳 1

Language 語言 : English with Simultaneous Interpretation in Putonghua
英語 (附設普通話即時傳譯服務)

Remarks 備註 : Free admission (Please scan the QR Code to register); CPD available
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Time 時間	Programme Rundown 程序表
AM SESSION 上午時段	
10:15AM – 10:30AM	**Registration 登記**
10:30AM – 10:40AM	**Welcome Remarks 歡迎辭** By **Mr Victor Choi**, Chairman, Hong Kong Electronics & Technologies Association 香港電子科技商會 主席 **蔡劍誠先生**
	Opening Remarks 開幕辭 By **Prof the Hon Dong SUN, JP**, Secretary for Innovation, Technology and Industry 創新科技及工業局 局長 **孫東教授, JP**
	Group Photo 嘉賓合照
10:40AM – 11:00AM	**From Vision to Reality: Embracing Artificial Intelligence for Business Transformation** **Speaker 演講嘉賓:** **Mr David Chen**, Partner, Technology Consulting, EY 安永科技諮詢合夥人 **陳昆賢先生**
11:00AM – 11:15AM	**How AMD is Advancing the Data Center and AI** **Speaker 演講嘉賓:** **Mr Greg Knopf**, Senior Director, EPYC Server Customer Engineering, Advanced Micro Devices
11:15AM – 11:30AM	**6G, Metaverse, and Generative AI: From Convergence to Emergence** **Speaker 演講嘉賓:** **Prof Martin Maier**, Professor, Institut National de la Recherche Scientifique
11:30AM – 11:45AM	**Charging Forward: Automotive Innovation to Advance towards a More Sustainable Future** **加速汽車創新 推動更加可持續的未來** **Speaker 演講嘉賓:** **Mrs Ho Wai Wong Lam**, VP Strategy, NXP Semiconductors 恩智浦半導體戰略副總裁 **林可蕙女士**

11:45AM – 12:30PM	**Panel Discussion and Q&A Session 討論及問答環節** **Moderator 主持: Dr Paulina Chan**, Chair of the Chartered Management Institute's Hong Kong Regional Board
12:30PM – 2:00PM	**Networking Luncheon 交流午宴** **Venue 地點**: S221 (by Invitation only and hosted by HKETA 由香港電子科技商會宴請)
PM SESSION 下午時段	
2:15PM – 2:30PM	**Registration 登記**
2:30PM – 2:45PM	**Generative AI: Infrastructure & Applications** **生成式人工智能：系統建設與應用** **Speaker 演講嘉賓:** **Mr Fred Sheu**, National Technology Officer, Microsoft Hong Kong Microsoft 香港區域科技長 **許遵發先生**
2:45PM – 3:00PM	**AI for Social Good: A Case Study of Street-level Air Pollution Estimation and Public Health Management** **人工智能造福社會：空氣污染估算和健康管理** **Speaker 演講嘉賓:** **Prof Victor O.K. Li**, Chair Professor of Information Engineering, The University of Hong Kong 香港大學訊息工程講座教授 **李安國教授**
3:00PM – 3:15PM	**Robotics and AI for Real-world Applications** **Speaker 演講嘉賓:** **Prof Kazuhiro Kosuge,** Deputy Managing Director, Centre for Transformative Garment Production
3:15PM – 3:30PM	**Innovative Full Color Micro LED Micro Display: A Revolutionary Technology for AR/XR industry** **創新全彩 Micro LED 微顯示器：AR/XR 行業的革命性技術** **Speaker 演講嘉賓:** **Dr Chong Wing Cheung**, Founder & CEO, Raysolve Technology Company Limited 鐳昱科技有限公司創始人兼首席執行官 **莊永漳博士**
3:30PM – 3:45PM	**Unleashing the Creative Potential of Generative AI: From the Past to the Present and into the Future** **Speaker 演講嘉賓:** **Dr Charles Cheung**, Senior Data Scientist and Deputy Director, NVIDIA AI Technology Center Hong Kong, NVIDIA NVIDIA 香港人工智能技術中心高級數據科學家及副總監 **張家俊博士**

Remarks 備註: The Organisers reserve the right to amend the symposium programme without prior notice. 主辦單位有權更改論壇程序表而不作另行通知。

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CPD Applications 持續進修專業學分申請

- 3 hours of CPD would be obtained for participants who have attended the event on time in both AM & PM sessions. 準時出席論壇上午及下午兩節之觀眾將可獲得 3 小時持續進修專業學分。
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Mr David Chen 陳昆賢先生

Partner, Technology Consulting, EY

安永科技諮詢合夥人

About the Speaker

In David's role as a Partner in Technology Consulting, he wears many hats as he also leads EY's Digital Emerging Technology and Technology Transformation competencies for the financial services sector in Hong Kong and serves as EY's Microsoft Alliance Lead in Greater China.

David has over 20 years of experience in the financial services industry across insurance, banking, and wealth & asset management. He has led large digital transformation programs across Asia-Pacific, from strategy formation to execution and adoption of innovative technology for clients in the region.

David holds an Executive MBA from Shanghai Jiao Tong University/University of Southern California, a Master of Information Technology, a Bachelor of Computer Science and a Bachelor of Commerce (Accounting and Finance) from The University of Melbourne.

Mr Greg Knopf

Senior Director, EPYC Server Customer Engineering, Advanced Micro Devices

About the Speaker

Greg Knopf is AMD senior director of server customer engineering in the Server Business Unit, with responsibility for enabling customers to develop systems based on AMD's EPYC CPUs. Knopf's global engineering organization works with customers and partners worldwide to develop leading high performance computing servers for both cloud and enterprise markets.

Previously, Greg was senior director at Intel Corporation, where he led engineering teams across server and client in the areas of customer engineering, firmware development, silicon and platform validation, and debug technologies.

During his more than twenty years of industry experience at AMD and Intel, Knopf contributed to development, customer integration and launch of more than ten generations of flagship CPUs.

Knopf holds Bachelor of Science degrees in Computer Science and Mathematics from Vanderbilt University.

Prof Martin Maier

Professor, Institut National de la Recherche Scientifique

About the Presentation

6G networks will bring forth a variety of novel enabling technologies such as integrated sensing and communications for perceptive mobile networks, quantum-enabled wireless networks, blockchainized mobile networks, and AI-native networks with intelligence-endogenous capabilities. The push from more advanced technological tools becoming available as well as the pull from society's needs imply that there must be several 6G paradigm shifts, e.g., transition from 2D to global 3D connectivity, services beyond communication, and a cyber-physical continuum between the connected physical world of senses, actions, and experiences and its programmable digital representations. Importantly, NSF's view on Next G research is that Next G includes but is not limited to the specific key performance indicator requirements and topics of interest addressed by the different 6G standards development organizations. In fact, according to the Next G Alliance roadmap, there is a unique opportunity to address the interdependencies between technological and human evolution, given that there is a symbiotic relationship between technology and a population's societal and economic needs. As technology shapes human behavior and lifestyles, those needs shape technological evolution.

This talk focuses on the fusion of digital and real worlds. We introduce the concept of the so-called Multiverse as an interesting attempt to help realize the fusion of digital and real worlds. The Multiverse offers eight different types of reality, including but not limited to virtual and augmented reality. A term closely related to the Multiverse is the recently emerging Metaverse. The Metaverse might be viewed as the next step after the Internet, similar to how the mobile Internet expanded and enhanced the early Internet in the 1990s and 2000s. The various adventures that this place has to offer will surround us both socially and visually. The Metaverse will put the user first, allowing every member of our species to delve into new realms of possibilities. A modern, digital renaissance is taking place on the grandest stage we have ever seen, involving billions of connected brains. In the coming decades, a new era of virtual life will bring in our next big milestone as a networked species.

About the Speaker

Martin Maier is a full professor with the Institut National de la Recherche Scientifique (INRS), Montréal, Canada. He was educated at the Technical University of Berlin, Germany, and received MSc and PhD degrees both with distinctions (summa cum laude) in 1998 and 2003, respectively. He was a recipient of the two-year Deutsche Telekom doctoral scholarship from 1999 through 2001. He was a visiting researcher at the University of Southern California (USC), Los Angeles, CA, in 1998 and Arizona State University (ASU), Tempe, AZ, in 2001. In 2003, he was a postdoc fellow at the Massachusetts Institute of Technology (MIT), Cambridge, MA. Before joining INRS, Dr. Maier was a research associate at CTTC, Barcelona, Spain, 2003 through 2005. He was a visiting professor at Stanford University, Stanford, CA, 2006 through 2007. He was a co-recipient of the 2009 IEEE Communications Society Best Tutorial Paper Award. Further, he was a Marie Curie IIF Fellow of the European Commission from 2014 through 2015. In 2017, he received the Friedrich Wilhelm Bessel Research Award from the Alexander von Humboldt (AvH) Foundation in recognition of his accomplishments in research on FiWi-enhanced mobile networks. In 2017, he was named one of the three most promising scientists in the category "Contribution to a better society" of the Marie Skłodowska-Curie Actions (MSCA) 2017 Prize Award of the European Commission. In 2019/2020, he held a UC3M-Banco de Santander Excellence Chair at Universidad Carlos III de Madrid (UC3M), Madrid, Spain.

Mrs Ho Wai Wong Lam 林可蕙女士

VP Strategy, NXP Semiconductors

恩智浦半導體戰略副總裁

About the Presentation

A sustainable future is no longer just an option but a strategic imperative for every organization. The shift towards achieving net-zero emissions is at the top of the agenda for businesses worldwide. Notably, the automotive sector has witnessed a remarkable stride in this direction, prominently featuring electric vehicles as pioneers in this transformative journey. Equally important is to address the electrification ecosystem in sectors like energy storage system (for renewable energy and backup) and smart electric vehicle charging.

In this presentation, you will gain insights into how NXP Semiconductors actively fosters innovation in IC, hardware, software and partnerships to help facilitate the growth of enterprises in the China Greater Bay Area, where our solutions play a pivotal role in enabling safer and more secure two-way communication from electrified endpoints to the cloud, while growing our footprint in the electrification ecosystem.

About the Speaker

Ho Wai Wong Lam is a 35+ years technology veteran. Ho Wai graduated from the University of Hong Kong with a bachelor's degree in electrical engineering, and pursued her master's degree education in Eindhoven, The Netherlands with a full scholarship from Philips. She has co-authored 13 granted patents as well as a dozen peer-reviewed journal papers. Ho Wai is an engineer at heart and a strategist by profession. She is a team player, team leader and a team builder, and advocates for Tech for Good – doing well while doing good.

She began her career with Philips Research in The Netherlands, and moved to the US to join Philips Semiconductors, which later became NXP Semiconductors. She has worked in a wide range of disciplines, including R&D, engineering management, marketing and business development. Her engineering team-building leadership is well-regarded by the industry, resulting in her receiving the 2004 YWCA TWIN (Tribute to Women in Industry) Award, a nomination put forth by Philips.

Ho Wai was named VP Strategy in 2013 where she co-led a number of strategic projects through boot-strapping organic innovation and technology acquisition. She also co-led several M&A and integration projects, including the Marvell WIFI integration project in 2019 for which she reported directly to the CEO. From 2020, she joined the Advanced Analog Business Line to serve in an internal consultant role to focusing on strategic projects ranging from new business creation, operations resilience to playing a key role in NXP's sustainability transformation.

Mr Fred Sheu 許遵發先生

National Technology Officer, Microsoft Hong Kong

Microsoft 香港區域科技長

About the Presentation

The following topics will be discussed in the presentation:

- Overview of Generative AI and Large Language Model
- Microsoft and OpenAI Partnership
- Responsible AI
- Business use cases and demos

About the Speaker

As National Technology Officer at Microsoft Hong Kong, Fred Sheu supports policy decision and delivers technologically relevant and scalable solutions into Hong Kong market. His main objectives are to align IT value propositions to public policies in such areas as healthcare, education, the environment, and local social and economic development; and to promote a digital agenda in top policy areas, including innovation, security and privacy, technology neutrality, accessibility, and interoperability.

Prior to Microsoft, Fred worked with Hewlett Packard (HP) Enterprise where he was the General Manager of Software for HPE Hong Kong. Fred is an active veteran in Hong Kong ICT industry, he serves in councils of Hong Kong Computer Society (HKCS), itSMF Hong Kong Chapter and the Hong Kong Information Technology Federation (HKITF).

Fred graduated from the University of Manitoba with a Bachelor of Computer Science (Hon) degree.

Prof Victor O.K. Li 李安國教授

Chair Professor of Information Engineering, University of Hong Kong

香港大學訊息工程講座教授

About the Presentation

Artificial intelligence (AI) is a powerful tool that has shown great success in various applications, such as medical diagnosis, autonomous vehicles, and chatbots. However, it also poses challenges to society, including bias, unemployment, and privacy infringement. As such, our interdisciplinary international team, led by Prof. Victor OK Li and Dr. Jacqueline CK Lam, has been researching AI technologies and their application to pressing societal problems, or AI for Social Good (AifSG), for the past decade. AifSG is centered on meeting the needs of society, improving the quality of life, reducing biased decision-making, allowing humans to make ethical decisions, and enhancing the public's ability to comprehend AI-generated results for better decision-making. This talk will demonstrate how AI can be used to estimate and forecast air pollution, to help our citizens utilize street-level air pollution information to make informed decisions that benefit their health. This is important as poor air quality has become an increasingly critical challenge for many metropolitan cities, and has devastating consequences on health and quality of life. Moreover, high spatial resolution air pollution data, coupled with corresponding socioeconomic data, also allow us to determine if there is environmental inequality. Overall, AI has the potential to greatly benefit society, but it must be approached with caution and with a focus on social good. Our research aims to harness the power of AI to address pressing societal challenges and make a positive impact on people's lives.

About the Speaker

Victor O.K. Li received SB, SM, EE and ScD degrees in Electrical Engineering and Computer Science from MIT. Prof. Li is Chair Professor of Information Engineering at the Department of Electrical & Electronic Engineering (EEE) at the University of Hong Kong (HKU). He was also Cheng Yu-Tung Professor in Sustainable Development from March 2017 to June 2023. He is the Director of the HKU-Cambridge Clean Energy and Environment Research Platform, the HKU-Cambridge AI to Advance Well-being and Society Research Platform, and the HKU-Cambridge AI for Neuro-disease Research Platform, which are interdisciplinary collaborations with Cambridge University. From April to August 2019, and in June 2023, he was Visiting Professor at the Department of Computer Science and Technology at Cambridge University. He was the Head of EEE, Assoc. Dean (Research) of Engineering and Managing Director of Versitech Ltd., the technology transfer and commercial arm of HKU. He serves on the board of Sunevision Holdings Ltd., listed on the Hong Kong Stock Exchange. He co-founded and serves as Chairman of the Board of award-winning Fano Labs Ltd., an artificial intelligence (AI) company specializing in natural language processing and speech recognition. Previously, he was Professor of Electrical Engineering at the University of Southern California (USC), Los Angeles, California, USA, and Director of the USC Communication Sciences Institute. His research interests include AI for social good, with applications in medicine, and clean energy and environment studies. In Jan 2018, he was awarded a USD 6.4M RGC Theme-based Research Project to develop deep learning techniques for personalized and smart air pollution monitoring and health management. Sought by government, industry, and academic organizations, he has lectured and consulted extensively internationally. He has received numerous awards, including the PRC Ministry of Education Changjiang Chair Professorship at Tsinghua University, the UK Royal Academy of Engineering Senior Visiting Fellowship in Communications, the Croucher Foundation Senior Research Fellowship, and the Order of the Bronze Bauhinia Star, Government of the HKSAR. He is a Fellow of the Hong Kong Academy of Engineering Sciences, the IEEE, and the HKIE.

Prof Kazuhiro Kosuge

Deputy Managing Director, Centre for Transformative Garment Production

About the Presentation

Today's AI cannot provide a comprehensive solution for robotics. However, from a robotics perspective, AI is a valuable tool for developing systems to address real-world problems that traditional methods struggle to solve. In this talk, I will show how AI technologies are being used to address real-world challenges. For the Aichi Expo in 2005, we developed a dance partner robot, "PBDR", using conventional machine learning method. Based on this concept, we developed a co-worker robot, "PaDY", for use in the automotive assembly process. Intention estimation was crucial for these collaborative robots. We have developed several applications of AI technologies in manufacturing, such as computer vision for bin picking, grasp planning, robot motion planning, and assembly of industrial parts using visual servoing. The application of AI technologies has made the visual servoing more practical. Recent advances in AI now allow us to handle the manipulation of soft materials. The JC STEM Lab of Robotics for Soft Materials, funded by the Hong Kong Jockey Club Charities Trust, is exploring this new field for future manufacturing applications.

About the Speaker

Dr. Kazuhiro Kosuge is Chair Professor of Robotic Systems in the Department of Electrical and Electronic Engineering, and Director of JC STEM Lab of Robotics for Soft Materials at the University of Hong Kong. He also serves as Deputy Managing Director, Center for Transformative Garment Production under the InnoHK initiative of the Hong Kong SAR Government. He received B.S., M.S., and Ph.D. in control engineering from the Tokyo Institute of Technology, in 1978, 1980, and 1988 respectively. He joined Tohoku University as Professor in 1995 and served as Distinguished Professor from 2018 to March 2021. He received the Medal of Honor, Medal with Purple Ribbon, from the Government of Japan in 2018, in the name of the Japanese Emperor. He also received IEEE RAS George Saridis Leadership Award in Robotics and Automation in 2021. He is an IEEE Life Fellow, JSME Fellow, SICE Fellow, RSJ Fellow, JSAE Fellow and a member of the Engineering Academy of Japan. He was the President of the IEEE Robotics and Automation Society from 2010 to 2011, the IEEE Division X Director from 2015 to 2016 and the IEEE Vice President for Technical Activities for 2020.

Dr Chong Wing Cheung 莊永漳博士

Founder & CEO, Raysolve Technology Company Limited
鐳昱科技有限公司創始人兼首席執行官

About the Presentation

Micro-LED is considered a promising candidate for various display applications. Full-color micro-LED micro displays are particularly significant for the AR/XR industry because they offer high-brightness color images with low power consumption, surpassing other micro-display technologies. By combining a high brightness light source with an optical waveguide, a new AR glasses experience can be achieved. Raysolve is dedicated to researching and manufacturing single panel full-color micro-LED micro displays, representing an ultimate solution for truly glasses like AR devices. In the presentation, Raysolve will introduce their utilization of wafer bonding and quantum dots technology to realize mass-manufacturable full-color micro-LED micro-displays.

Micro-LED 被認為是各種顯示應用最有前途的新興技術。全彩 micro-LED 微型顯示器對於 AR/XR 行業尤其重要，因為它們能夠以低功耗提供高亮度彩色圖像，超越其他微型顯示技術。通過將高亮度光源與光波導相結合，可以實現全新的 AR 眼鏡體驗。Raysolve 致力於研發和製造單片式全彩 Micro-LED 微型顯示器，代表了真正眼鏡式 AR 設備的終極解決方案。Raysolve 將介紹他們利用晶圓鍵合和量子點技術來實現可大規模製造的全彩 Micro-LED 微型顯示器。

About the Speaker

Dr. Wing Cheung CHONG is the founder and CEO of Raysolve. He was born in Hong Kong and completed his bachelor's, master's, and doctoral studies at the Hong Kong University of Science and Technology, under the guidance of Prof. Kei May Lau, a renowned figure in the optoelectronics field. With over 15 years of dedicated experience in Micro-LED micro-display research, Chong has amassed an impressive track record, with over 140 patent applications and 40 publications in the field. In 2019, leveraging his expertise, Chong established Raysolve, where he focused on developing large-size wafer bonding and powerful quantum dot photoresist technology. These advancements enabled the definition of quantum dot patterns through photolithography, thereby realizing full-color micro-LED micro displays.

莊永漳博士是 Raysolve 的創始人兼首席執行官。他出生於香港，在香港科技大學完成學士、碩士和博士學位，師從光電領域著名人物劉紀美教授。莊博士在 Micro-LED 微顯示器研究領域擁有超過 15 年的專業經驗，在該領域擁有超過 140 項專利申請和 40 篇國際論文。2019 年，莊博士利用多年的專業知識成立了 Raysolve，專注於開發圖案，從而實現全彩 Micro-LED 微型顯示器。

Dr Charles Cheung 張家俊博士

Senior Data Scientist and Deputy Director, NVIDIA AI Technology Center Hong Kong, NVIDIA
NVIDIA 香港人工智能技術中心高級數據科學家及副總監

About the Presentation

Generative Artificial Intelligence (AI) has emerged as a powerful and transformative technology, driving innovation across various domains. In this talk, we will provide an overview of generative AI and explore the current applications of it. A few use cases of Generative AI in both academia and industry will be discussed. How enterprise build their own GenAI model will also be discussed.

About the Speaker

Dr Charles CHEUNG is currently Deputy Director in NVIDIA AI Technology Center for North Asia. He works on different projects with universities including computer vision, natural language processing, applied mathematics, foundation of machine learning, etc. Prior joining NVIDIA, he led a research team to develop AI solutions for advanced manufacturing companies.

He received BSc and PhD degree in applied and computational mathematics from HKBU mathematics department in 2011 and 2016, respectively. His research focuses on computational science, partial differential equation, computer vision and artificial intelligence. He is currently an adjunct associate professor in the department of mathematics at HKBU.

Dr Paulina Chan 陳彥碧博士

Chair of the Chartered Management Institute's Hong Kong Regional Board

About the Moderator

Paulina is a global citizen. She is the Principal and CEO of Global Mutual Consortium, an international think-tank on tech-biz strategy and innovation business development. Paulina is a strong advocate for "Technology-Business Leadership and Management!"

Dr Chan has been the Managing Director and expatriate of AT&T/Lucent Technologies (US, Asia/Pacific, the EU); Project Director of Exxon/Mobil Corporation Headquarters (New York); China Regional General Manager and expatriate of ICO Global Communications (London, Beijing).

On leadership and management, Paulina has been awarded Chartered Manager and Chartered Companion of the Chartered Management Institute (UK). She is Chair of the CMI Board of Directors in Hong Kong. On technology, Paulina is Chair of IEEE BoD Public Visibility and Vice-chair of Diversity and Inclusion Committees worldwide, and Immediate Past Chair of the IEEE Hong Kong Section. Motiving young professionals, Paulina is Champion of the Mentoring Programme for Imperial College London Alumni Association of Hong Kong, Founding Chair of Imperial Women in World Digital Signal Processing and former Imperial Ambassador.