HONG KONG ICT AWARDS 2019 香港資訊及通訊科技獎

Smart Business Award
商業方案獎

Smart Business Award

Solution for Business and Public Sector Enterprise

Solution for SME

Big Data and Open Data Applications

Information Security

Leading Organiser 籌辦機構

HONG KONG COMPUTER SOCIETY
IT Shapes the Future

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背景

The Hong Kong ICT (HKICT) Awards aims at recognising and promoting outstanding information and communications technology (ICT) inventions and applications, thereby encouraging innovation and excellence among Hong Kong's ICT talents and enterprises in their constant pursuit of creative and better solutions to meet business and social needs.

香港資訊及通訊科技獎旨在表揚及推廣優秀的資訊及通訊科技發明和應用,以鼓勵香港業界精英和企業不斷追求創新和卓越,謀求更佳和更具創意的方案,滿足企業的營運需要,造福社會。

The Hong Kong ICT Awards was established in 2006 with the collaborative efforts of the industry, academia and the Government. Steered by the Office of the Government Chief Information Officer, and organised by Hong Kong ICT industry associations and professional bodies, the Awards aims at building a locally espoused and internationally acclaimed brand of Hong Kong ICT awards.

通過業界、學術界和政府的共同努力,香港資訊及通訊科技獎於二零零六年成立。香港資訊及通訊科技獎由政府資訊科技總監辦公室策動,並由香港業界組織及專業團體主辦,目的是為香港建立一個廣受香港社會愛戴、並獲國際認同的資訊及通訊科技專業獎項。

There are eight categories under the Hong Kong ICT Awards 2019. There is one Grand Award in each category, and an "Award of the Year" is selected from the eight Grand Awards by the Grand Judging Panel. HKCS is officially appointed by OGCIO to be the Leading Organiser of the Hong Kong ICT Awards 2019 - Smart Business Award category. The Smart Business Award covers 4 streams, including Solutions for Business and Public Sector Enterprise, Solution for SME, Big Data and Open Data Applications as well as Information Security.

2019香港資訊及通訊科技獎設有八個類別的獎項。每個類別均設一個大獎,而最終評審委員會再從所有大獎中甄選出「全年大獎」。香港電腦學會被正式委任為2019香港資訊及通訊科技獎 — 商業方案獎籌辦單位。商業方案獎包括四個類別,包括商業及公營機構、中小企業、大數據及開放數據應用,以及資訊保安。

The Hong Kong ICT Awards 2019: Smart Business Award is established for four major purposes:

「2019香港資訊及通訊科技獎:商業方案獎」具有四個主要目的:

1. The application of Information Technology is essential to improve the operating efficiency and productivity, quality and overall competitiveness and customer service for both our business and public sector enterprises. This stream recognises outstanding locally developed products and applications which provide cost-effective and innovative IT solutions to business enterprises as well as public sector organisations, through the deployment of proven and emerging information technologies. The awards encourage original products and services development by our IT industry as well as in-house applications developed by business and public sector organisations.

1. 資訊及通訊科技的應用對於提升香港的產業、服務、產品質量和整體競爭力是不可缺少的。商業方案獎鼓勵本地出眾的資訊及通訊科技產品及應用,為商業及公營機構帶來具成本效益及創新的方案,從而推動資訊及通訊科技在商業活動上及日常生活上中的應用。

2. The backbone of our economy is our SMEs, of which the adoption of ICT is crucial for its efficiency and productivity, and its global reach in marketing strategy and business expansion. One of the streams in this Award, Solution for SME, is to recognise outstanding achievements in technological innovations in locally developed IT products and application/services for effective use by SME.

2. 中小企業是我們的經濟支柱,而資訊及通訊科技的運用,對中小企業的環球營銷策略和業務拓展十分重要。商業方案獎設有中小企業獎,以鼓勵中小企業設計或採用的創新應用作品。

3. With the availability of low-cost high-speed processors and innovative analytics software to manipulate and analyse massive structured and unstructured data, big data is now universally recognised as an essential tool to enhance productivity, competitiveness, customer services and business growth. Open Data, if made available to the public in digital formats, can also be creatively re-used to develop innovative products. One of the steams in this Award, Big Data and Open Data Applications, is to recognise outstanding locally developed IT product and services in big data for specific business and industry domains and sectors; as well as innovative big data user applications developed in-house by an enterprise to enhance its business planning and operational objectives. It is also to encourage innovative and effective IT enabled Open Data schemes implemented by public and private sector organisations, as well as innovative applications by the open data community in creatively utilising open datasets to advance business interests.

3. 隨著低成本高速處理器和創新分析軟件的廣泛使用,在操作和分析大量的結構性和非結構性數據方面大有助益,大數據現在被公認為提高生產力、競爭力、客戶服務和業務增長的重要工具。如果數據得以數碼形式開放予公眾,這些數據將可以更具創意地使用於開發創新產品。商業方案獎設有大數據及開放數據應用獎以表揚由本地公司為特定的業務和行業領域開發的優秀大數據資訊科技產品和服務,以及由企業內部開發的創新型大數據用戶應用程式,以加強其業務規劃和營運目標。此獎項亦鼓勵為公共及私營機構開發有效且創新的資訊科技開放數據計劃,促進商業利益。

4. With the ever-increasing security intrusion and breaches of corporate information systems across all sectors by unauthorised or malicious entities with significant monetary and data loss, operational and reputational damages; this award recognises outstanding IT products, services and user applications developed locally or their combination that provide access management, intrusion detection/prevention, anti-malware, or other system protection measures including cybersecurity to ensure the confidentiality, integrity and availability of personal and corporate information are maintained.

4. 隨著不斷增加的未經授權或惡意實體的安全侵略和企業資訊系統,造成金融和數據丟失,營運及聲譽上的損失,此獎項鼓勵本地開發優秀的資訊科技保安產品、服務及用戶應用,提供存取管理、入侵檢測/預防、反惡意軟件或其他包括網絡安全的系統保護措施,以確保個人和企業信息的機密性、完整性和可用性。

Message from Mr. Ted SUEN

President, Hong Kong Computer Society
孫耀達先生
香港電腦學會會長

The Hong Kong Computer Society (HKCS) is honoured to be the Leading Organiser of the "Hong Kong ICT Awards 2019: Smart Business Award" (HKICTA 2019) once again. Since its founding in 1970, HKCS has been dedicated to the development of ICT industry, and upholding of its highest professional standards.

The Hong Kong ICT Awards was established in 2006 with the collaborative efforts of the industry, academia and Government. Hong Kong Computer Society is proud to be appointed by the Office of the Government Chief Information Officer (OGCIO) as the leading organiser of the Smart Business Award category. Looking ahead, I believe that our joint efforts continue to be crucial for encouraging participation on a territory-wide level, and to provide more opportunities for Hong Kong ICT talents to showcase their prowess on the international stage.

I would like to take this opportunity to thank each and every member of the Organising Committee, the Assessors, and the Judging Panel for their dedication and expertise. A special thanks also to the supporting organisations and the Secretariat for their invaluable support.

Last but not least, my warmest congratulations to all the winners for their incredible efforts in promoting "Smart" ICT usage and innovation in the Hong Kong business community.

自1970年成立以來，香港電腦學會一直不遺餘力推動業界發展及提升業界專業水平，本會深感榮幸能夠再次舉辦「2019香港資訊及通訊科技獎：商業方案獎」。

「香港資訊及通訊科技獎」於2006年在業界、學術界和政府的共同努力下成立。香港電腦學會十分榮幸，能獲政府資訊科技總監委任為商業方案獎類別的籌辦機構。展望未來，相信我們的共同努力，將是鼓勵全港業界參與的關鍵，我們將提供更多機會，予香港的資訊及通訊科技人才，讓他們在國際舞台上展現實力。

本人想藉此機會，衷心感謝籌備委員會、評審委員會和遴選委員會中，每一位成員的貢獻和專業知識，以及感謝支持機構和香港電腦學會秘書處提供的寶貴支持。

最後，本人謹代表本會，再次熱烈地祝賀所有獲獎者，及感謝他們在促進本地商界邁向更為「智慧」的道路上，所付出的巨大努力。

Message from Ms. Jean HUNG

**Chairperson of the Organising Committee
HKICT Awards 2019: Smart Business Award**
洪寶貞女士
「2019香港資訊及通訊科技獎:商業方案獎」籌備委員會主席

It has truly been an honour for me to serve as the chairperson of the organising committee of such a coveted award, which promotes innovation and excellence in the ICT industry. The Hong Kong ICT Awards has been running for over ten years, backed by enthusiastic support from the Government, industry associations, professional bodies and the academia. It is wonderful to see the award going from strength to strength over the years, as can be witnessed from the high caliber of entries we have received this year.

The "Smart Business Award" category of the Hong Kong ICT Awards encourages innovation in Hong Kong's ICT industry by recognising exceptional talent from 4 different streams. They are Solution for Business and Public Sector Enterprise; Solution for SME; Big Data and Open Data Applications; and Information Security. All the award recipients are selected based on the creativity and viability of their IT solutions in meeting evolving business and social needs.

Apart from congratulating the winners, I would also like to recognise the contributions of many talented individuals who have made this year's awards a success. My heartfelt thanks goes to all the members of the organising committee and judging panel, who have contributed their valuable time and advice throughout the awards process. It is your passion and professionalism in the industry that make the Hong Kong ICT Awards such a highly acclaimed award, both locally and internationally.

And of course, a big 'thank you' to all the participants and winners for their enthusiasm and passion behind their great ICT inventions and applications. You are the people who make it possible for Hong Kong to strengthen its position as an ICT hub, now and in the future.

本人非常榮幸能在是項廣獲好評的業界大獎中，擔任籌備委員會主席。此獎項旨在促進資訊及通訊科技行業的創新，並表彰優秀作品為社會帶來的卓越成就。「香港資訊及通訊科技獎」已經運作十多年，得到政府、業界組織、專業團體和學術界的熱烈支持。我們很高興看到這個獎項，多年來一直在不斷發展壯大，由我們今年收到的高質量參賽作品中，可見一斑。

「香港資訊及通訊科技獎：商業方案獎」類別，目的是鼓勵香港資訊及通訊科技業尋求創新，表揚來自4個不同範疇的傑出人材，包括商業及公營機構、中小企業、大數據及開放數據應用和資訊保安。所有獲獎作品均根據解決方案的可行性來挑選，以滿足變化不斷的商業和社會需求。

除了祝賀獲獎者之外，本人還想表彰多位才華橫溢的貢獻者，他們的參與令「2019香港資訊及通訊科技獎」能順利舉行。本人衷心感謝籌備委員會和評審委員會的所有成員，他們在整個頒獎過程中，貢獻了寶貴的時間和提供專業的意見。因著你們對推動業界的熱誠和專業精神，令香港資訊及通訊科技獎，成為本地以及國際上，均備受讚譽的獎項。

當然，還要感謝所有在這些優秀得獎作品背後的參與者和開發者，你們是讓香港不論現在或未來，均能保持甚至加強其於資訊及通訊科技上，在全球的核心地位。

Message from Prof. Simon HO

Chairperson of Judging Panel
HKICT Awards 2019: Smart Business Award
President, The Hang Seng University of Hong Kong

何順文教授
「2019香港資訊及通訊科技獎：商業方案獎」評審委員會主席
香港恒生大學校長

It is my honour to be the Chairperson of the Judging Panel for the "Hong Kong ICT Awards 2019: Smart Business Award". As usual, we have been impressed by the quality of the entries, and we are delighted that the standard of the competition has reached a much higher level.

As you know, information technology is essential for improving the operating efficiency and productivity of business enterprises, helping the whole of society in general, and enabling Hong Kong to maintain its competitive advantage.

The "Hong Kong ICT Awards 2019: Smart Business Award" provides an excellent platform for local companies to demonstrate remarkable products and applications that can enhance the effectiveness of business enterprises as well as public sector organisations.

We are extremely pleased to see such strong participation in the Awards this year, especially in the Smart Business Award category. The organising committee has received 44 entries for the 4 award streams. Finally, 10 winners were selected based on their success in meeting 5 judging criteria, including creativity, functionality, market potential, impact and quality.

As Chairperson of the Judging Panel, I have had the privilege of working with a highly dedicated team of assessors and judges, and witnessed the remarkable inventions of highly talented people in ICT this year. I sincerely hope that the awards will continue to flourish and that even more original and beneficial IT products and services will be created for businesses and society as a whole.

本人很榮幸成為「2019香港資訊及通訊科技獎：商業方案獎」評審委員會主席。一如以往，本年度參賽作品的質素及水準之高，讓一眾評審印象深刻。

眾所周知，資訊科技對於提高商界企業以至整個社會的營運效率和生產力，以及令香港保持競爭優勢，都起着至關重要的作用。「2019香港資訊及通訊科技獎：商業方案獎」為本地公司提供一個廣獲認同的平台，展示其有助提升商界企業及公營機構效能的優秀產品。

我們非常高興看到今年的比賽有眾多公司參與，特別在商業方案獎類別。今屆本類別分4個範疇，共收到44項參賽作品。經嚴格評審，基於5項評審準則，包括創意、功能、市場潛力、影響力和質素，10項優秀作品最終脫穎而出。

身為評審委員會主席，我有幸與一支極為專業的評審委員團隊合作，並見證了今年傑出資訊及通訊科技人員的優秀作品。我誠摯希望「香港資訊及通訊科技獎」能夠繼續蓬勃發展，激勵更多本地企業創造資訊及通訊科技產品和服務，從而惠及商界以至整體社會。

Smart Business Award Judging Panel
商業方案獎評審委員會

Judging Panel 評審委員會

(in Arbitrary Order 排名不分先後)

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Smart Business Grand Award and Smart Business (Solution for Business and Public Sector Enterprise) Gold Award
# 商業方案大獎
及 商業方案（商業及公營機構）金獎

Hong Kong Observatory
From detection of rain to safeguarding of the community against hazardous weather
www.weather.gov.hk
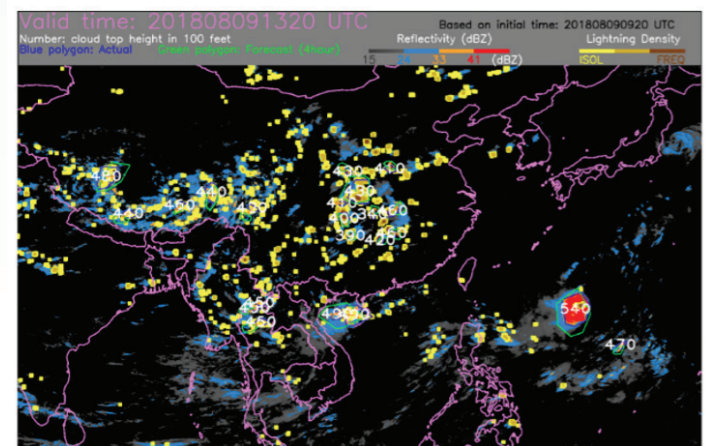
The Hong Kong Observatory (HKO) pioneers nowcasting to predict severe weather in the next few hours and has been designated by the World Meteorological Organization as the Regional Specialized Meteorological Centre for Nowcasting. HKO has developed an urban-scale nowcasting system, namely SWIRLS (Short-range Warning of Intense Rainstorms in Localized Systems) that innovatively uses observations from radars, lightning sensors and rain gauges while adopting computer vision, deep learning and computer weather model to provide timely and effective forecasts of location, timing and intensity of rainfall and lightning hours ahead.

SWIRLS supports operation of rainstorm forecasting and warning services, and powers public nowcast services through HKO's mobile app and website. Additionally, rainfall nowcasts are provided to Civil Engineering and Development Department, Drainage Services Department and Water Supplies Department, to mitigate landslides, improve works efficiency, enhance ecology and preserve freshwater. Customised lightning nowcast products enable timely activation of responses prior to arrival of inclement weather.

SWIRLS has been adopted in weather services in Mainland China, Macao, India, South Africa and Malaysia, with a collaborative development platform established for future development.
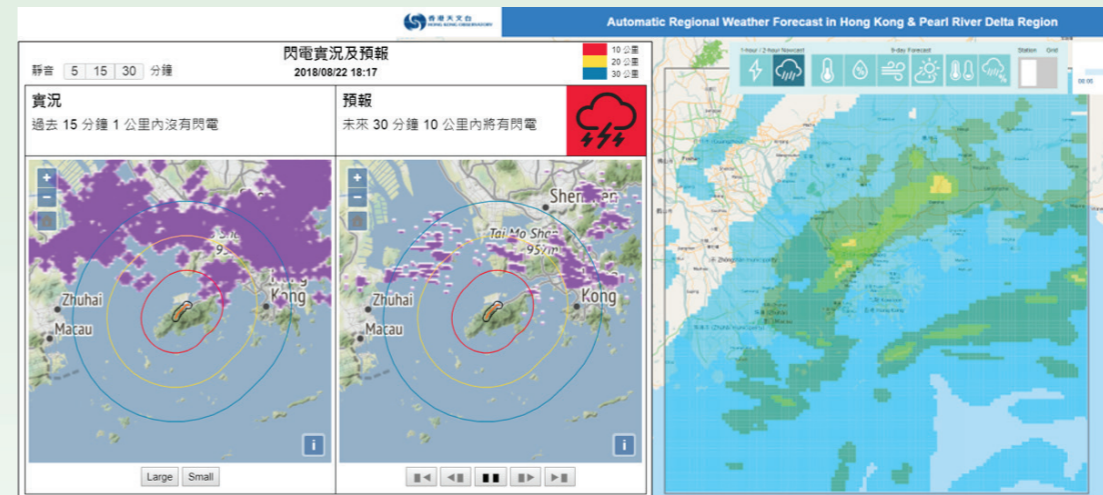
香港天文台
從降雨監測到保障社會免受惡劣天氣影響

香港天文台(天文台)開創臨近預報，預測未來數小時的惡劣天氣，並獲世界氣象組織指定為臨近預報區域專業氣象中心。天文台開發一套名為「小渦旋」的城市臨近預報系統，創新地運用雷達、閃電探測儀器、雨量計觀測，以及應用電腦視覺、深度學習和電腦天氣模式，於數小時前對降雨和閃電區域、時間和強度，提供及時和有效的預報。

「小渦旋」支援暴雨預報和警告服務的運作，透過香港天文台的流動應用程式和網站作臨近預報。降雨預報亦提供予土木工程拓展署、渠務署和水務署，以防治山泥傾瀉、加強工程效率、改善生態和保存食水。特訂的閃電預報服務，更可促使應變方案能在惡劣天氣抵達前及早啟動，保障人身安全和減少損失。

「小渦旋」已被中國內地、澳門、印度、南非和馬來西亞的氣象機構採用，並以協作平台方式繼續日後開發。
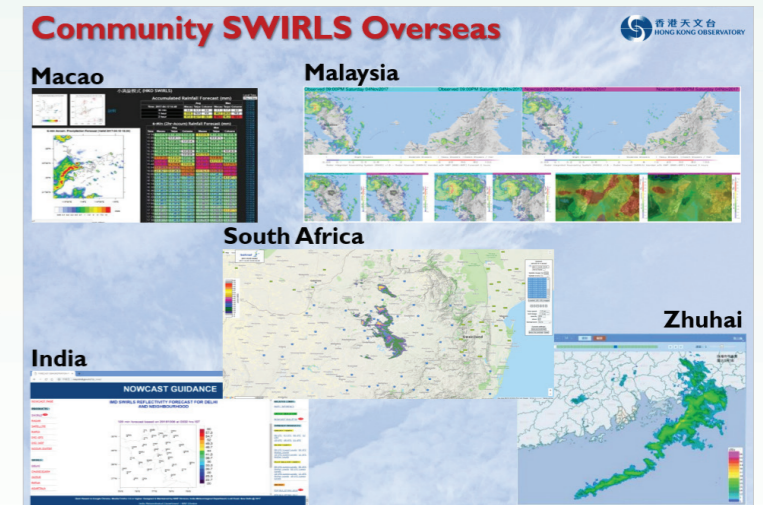
Comments from Judging Panel
評審委員會評語

The panel appreciated the solution's ability to accurately forecast rainfall and lightning and predicting their location as well as intensity several hours in advance. It enables timely and effective preparation to respond to these potentially hazardous weather conditions, thereby protecting people and properties. Many organisations have benefited from this solution, such as Hong Kong International Airport, Geotechnical Engineering Office, Drainage Services Department, etc. In collaboration with the Hong Kong University of Science and Technology, the team has developed a novel algorithm for rainfall nowcast based on deep learning. The research result was published at the Conference of Neural Information Processing System (NeurIPS). This paper was widely circulated and considered the field of deep learning nowcast worldwide.

The HKO provides nowcasting product to serve Asia by making available some of its work in the form of open source software and open data.

評審讚賞此方案能夠準確地預測降雨和閃電，並提前幾小時預測其位置和強度，讓天文台能夠及時和有效地準備應對這些潛在的危險天氣條件，從而保護市民和財產。更有很多其他機構組織都受惠於從這方案中，包括香港國際機場、土力工程處及渠務署等。該團隊與香港科技大學合作開發了一種基於深度學習計算降雨預報的新算法。研究結果發表在神經信息處理系統大會(NeurIPS)的會議上。研究結果被廣泛傳播並被認為是全世界的深度學習領域。

香港天文台以開放源碼軟件和開放數據的形式為亞洲其他地方提供部分預報產品。

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Smart Business (Solution for Business and Public Sector Enterprise) Gold Award
商業方案 (商業及公營機構) 金獎

Hung Hing Printing Group Limited
Smart Planning
www.hunghingprinting.com

HUNG HING

Smart Planning is an Industry 4.0 solution that optimizes machine utilisation, enhances overall productivity and increases transparency by transforming and simplifying the way manufacturers plan, schedule, dispatch, execute and monitor performance.

It is especially well-suited to complex make-to-order manufacturing environment and products that require many manufacturing tasks.

It uses advanced algorithms to automatically compute the most optimal production schedule based on order specifications, delivery date and priority. Work orders are assigned and dispatched the most suitable set of machines and timeframe to produce. IoT devices collect real-time production data directly from machines to monitor progress and performance through mobile applications.

This multi-module solution combines with traditional ERP system to enable digital practices of smart factory and deliver real business value to manufacturers.

鴻興印刷集團有限公司
智能生產計劃平台

智能生產計劃平台是一個專為實現【工業4.0】而設的商業解決方案，旨在優化機器使用率，簡化生產程序，提高生產力和透明度。利用高等演算法根據產品規格、交貨日期和優先次序等約束條件去制訂最優化生產排期。透過物聯網裝置收集實時生產信息，管理層可以透過手機應用程式監控生產進度，及時解決突發異常問題。多模組的生產計劃及管理系統，結合企業ERP系統，實現智能工廠。

Comments from Judging Panel
評審委員會評語

The panel appreciated Hung Hing Printing Group Limited to develop this in-house technology in the printing industry. It is innovative and this solution revolves around the concept of Industry 4.0 by collecting real-time shop-floor data for the continued refinement of production scheduling. Its highly pragmatic approach in the design and implementation of this system is an excellent case study for the manufacturing sector in Hong Kong. The combination of Advanced Production Scheduling (APS), Manufacturing Execution System (MES) and data-driven business intelligence (BI) is delivering good return to Hung Hing in the overall performance improvement in its manufacturing facilities.

評審讚賞鴻興印刷集團有限公司在印刷行業開發這種內部技術具有創新性，該解決方案圍繞工業4.0的概念，通過收集實時工廠數據來持續改進生產計劃。它在設計和實施該系統時採用高度務實的方法，是香港製造業的一個很好的案例研究。高級生產計劃（APS），製造執行系統（MES）和數據驅動商業智能（BI）的結合為鴻興印刷集團有限公司在其製造設施的整體性能改進方面帶來了良好的回報。

Smart Business (Solution for Business and Public Sector Enterprise) Silver Award
商業方案 (商業及公營機構) 銀獎

Airport Authority /
Creaxon Technologies Inc. Ltd.
Arrival Baggage Reclaim Performance Monitoring System
www.hongkongairport.com / www.creaxon.com

As one of the world's busiest airports, Hong Kong International Airport (HKIA) handles more than 90,000 pieces of baggage daily. To improve the efficiency of handling such a huge amount of baggage, the Airport Authority Hong Kong and Creaxon Technologies join hands to develop a solution for performance monitoring.

The Baggage Handling Performance Monitoring System (BHPMS) utilises multi-track video analytics methodology to analyse the real-time situation of baggage, vehicles, conveyer system, baggage handling facilities. The BHPMS systematically translates the videos footage into a set of quantitative and easy-to-understand performance metrics which are useful for process control and safety assurance.

The system provides a powerful tool for airport operators to monitor work safety, performance and understand process bottleneck. More importantly, it creates an automatic and objective method to define and validate service level agreements in baggage handling, which helps to improve operation quality in the long run.

機場管理局 / Creaxon Technologies Inc. Ltd.
行李處理效率監測系統

香港國際機場是全球最繁忙的機場之一，每天處理超過90,000件行李。為提高處理大量行李的效率，香港機場管理局與Creaxon Technologies攜手合作，就監察行李處理表現開發解決方案。

行李處理表現監察系統(BHPMS)利用多重視像分析方法，以實時分析行李、車輛、輸送帶系統及行李處理設施的狀況。BHPMS有系統地將視像片段，轉化為一組容易理解的量化表現量度標準，以便有效監控流程及確保安全。

BHPMS為機場營運者提供有效工具，以監察工作安全、運作表現及了解流程的瓶頸問題，而更重要的是，這個系統開創了自動化及客觀的方法，以確立及評核行李處理服務質素，長遠而言有助改善運作水平。
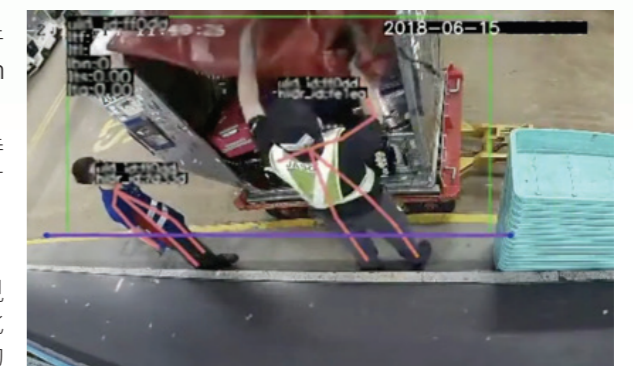
Comments from Judging Panel
評審委員會評語

This application is an innovative use of AI and computer vision in baggage handling operation at the Hong Kong International Airport. Operational efficiency and safety can be greatly improved using this technology in baggage handling. Airport Authority will continue to refine this system to support its bagging handling operation. It has the potential to be promoted to other airports worldwide.

此方案是運用在香港國際機場的行李處理，它在操作中創新使用了人工智能和計算機視覺。使用這種行李處理技術可以大大提高運營效率和安全性。

機場管理局將繼續完善該系統，以支持其行李處理的操作。此方案有可能被提升和運用在全球其他的機場。

Smart Business (Solution for Business and Public Sector Enterprise) Certificate of Merit
商業方案（商業及公營機構）優異證書

Airport Authority / Chain Technology Development Co. Ltd.
HKIA Digital Twin

Hong Kong International Airport has turned to data in order to enhance operational efficiencies and elevate passengers' travel experience with the help of its Digital Twin, a 3D computer-generated replica of the airport's physical layout and functions, in 3D and more.

The twin collects real-time data fed from Internet of Things devices deployed throughout the airport. Using past, current and predictive data, it can create virtual reality models useful for making decisions about design, construction, operations and maintenance. This allows airport operators to visualise potential challenges and allocate resources more effectively, ultimately helping to keep passenger, baggage and cargo traffic flow. It also allows the users to engage with digital data in a human-centric way.

"The Digital Twin's lifelike visualisation helps us to streamline our design review for new construction projects, especially as we use more off-site construction methods which require careful planning," Hong Kong Airport Authority Chief Information Officer Andy Bien says. "Also, using predictive analytics, it can provide alerts that inform how we deploy resources, resulting in cost savings and improved service."

The Digital Twin has been completed for most of the customer-facing areas of Terminal 1. Remaining areas of the airport will be added through 2019.

機場管理局 / 倬詠技術拓展有限公司
HKIA Digital Twin

為求提升營運效率及優化旅客體驗，香港國際機場引入「數碼分身」技術，把現實場境複製至虛擬空間，創建出客運大樓設施及系統的多維度實境模型。

機場的實時運作數據可通過物聯網裝置匯集於數碼分身。這個基於現況資料，輔以歷史數據與未來預測交織而成的虛擬實境模型，可用作機場設計、建築、營運和維護的決策基礎。機場管理人員可藉由數碼分身預見各種潛在問題，及早作出有效的資源調配，務求令旅客、行李、貨件通行無阻；同時，又可為用戶帶來以人為本的數據使用體驗。
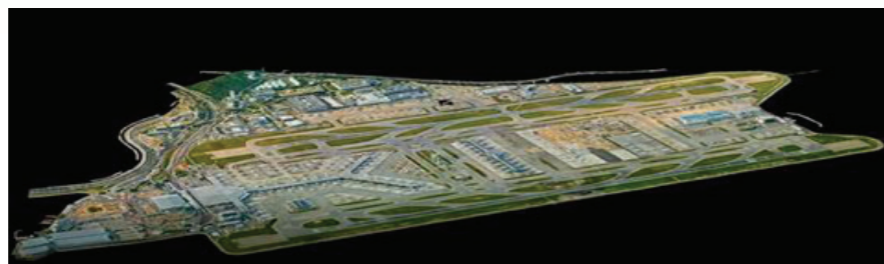
Comments from Judging Panel
評審委員會評語

HKIT Digital Twin is an innovative integration of different technologies in creating a digital platform to support human-centric visualisation and explainable prediction to support the operation of a highly complex facility. It demonstrates the good use of data, computer generated simulation to support decision-making with the aid of visualize digital model of the real-world.

The Hong Kong Airport is pioneer the application of Digital Twin technologies to support Airport operations.

HKIT Digital Twin是一種創新及集合了不同的技術的預測系統，可用於創建數碼平台，支持以人為中心的可視化和可解釋的系統，它能幫助預視高度複雜的設施運行。它通過可視化現實世界的數字模型，展示了如何良好使用使用數據，計算出建築的模擬支持當局的決策。

香港國際機場是將此技術應用於機場運營中的先驅。

Smart Business (Solution for Business and Public Sector Enterprise) Certificate of Merit
商業方案（商業及公營機構）優異證書

OceanX Technology Ltd.
OceanX ECM
www.oceanxtech.com

OceanX ECM is a comprehensive Enterprise Content Management system which includes Document Management System, Document Capture, Document Processing Center and many powerful features. It supports cloud-based and on-premise. Powerful features like E-mail Management enable users to easily file and search all incoming and outgoing e-mails with attachments; one interface for managing e-mails and ECM. Office Add-in tightly integrates with Microsoft Office, users can directly save documents into OceanX ECM. Its patented technologies like Buildingblocks, CapturePlus and ImagePlus increase user adoption rate.

Development concept of OceanX ECM origins from "The Philosophy of Water". Its Patented BuildingBlocks Technology is flexible to adapt to different enterprises and change its interface and functionality according to customer's requirements without programming. It significantly increases user adoption rate and reduces implementation cost.
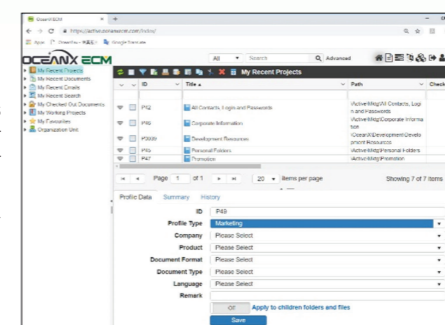
OceanX Technology Limited is the leading Enterprise Information Management provider in Asia. Its flagship products OceanX ECM and OceanFax are selling into Worldwide market through their international partner network.

傲訊全通科技有限公司
OceanX ECM 企業內容管理系統

OceanX ECM 是一個全面的企業內容管理系統，它包含文檔管理系統、文檔擷取、文檔處理中心和其他強大功能，支持雲端及內部部署。它的強大功能例如電子郵件管理，以一個界面管理電子郵件和 ECM 文檔，用戶也可以輕易存檔和搜索所有電子郵件及其附件。Office Add-in 與 Microsoft Office 無縫集成，用戶可以直接將 Office 文檔儲存在 OceanX ECM。專利技術 Buildingblocks, CapturePlus 和 ImagePlus，大大提高實施功率。

OceanX ECM 的開發理念源於"水的哲學"。水無常形，上善若水，水善利萬物而不爭。BuildingBlocks 專利技術如水般靈活適應於不同企業，並可根據客戶的要求，設計其界面和功能，無需編程。大大減低實施費用和提升用戶採用率。

傲訊全通科技有限公司是亞洲領先 Enterprise Information Management 開發商，其旗艦產品 OceanX ECM 和 OceanFax 通過強大國際分銷網絡暢銷亞洲。

BuildingBlocks 'As Flexible as Water' - easy to configure user interface for different users or groups.
BuildingBlocks 靈活如水應用於不同的用戶或組。

BuildingBlocks Powerful user Interface
BuildingBlocks 高要求用戶界面
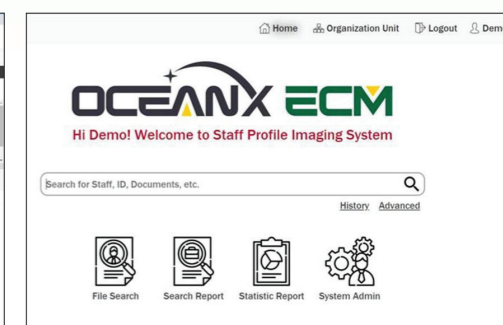
BuildingBlocks Intuitive user Interface
BuildingBlocks 精簡用戶界面

Comments from Judging Panel
評審委員會評語

OceanX ECM is the building block architecture of the Product allows the customers to choose the essential functions that they need. It also supports easy adaptation without costly customisation work. The security features of the Product are well-planned and fully implemented for a product in this category.

OceanX ECM是以積木式建築出來的產品，它能滿足客戶所需要的基本功能。

它還支持簡易的調整，無需昂貴的定制工作。此產品的安全功能已經過精心規劃。

Smart Business (Solution for SME) Gold Award
商業方案（中小企業）金獎

HK Decoman Technology Ltd.
https://hkdecoman.com

As a human-oriented company, HK DECOMAN TECHNOLOGY LIMITED (HKDecoman) is a one-stop solution for renovation. It develops intelligent services using various technology to cater to the individualised renovation needs of each client. These services include HKDecoman intelligent client-contractor pairing system which links the renovation projects to required products and services.

It strives to build an innovative ecosystem that guarantees a comprehensive product and service offer. In addition to online-to-offline services, it also provides diverse P2P sale solutions and educate its clients on renovation and maintenance. By adopting intelligent contacts and blockchain technology (Co-operating with MoneySQ), it is able to provide extra protection to clients.

裝修佬科技有限公司

裝修佬科技有限公司（下稱：裝修佬）以人為本，運用各項技術發展智能化服務，當中包含應用互聯網技術，研發裝修佬智能配對系統、新增智能案例 - 串聯工程及產品服務、全面推動O2O服務，推行多種點對點銷售方案以及全方位推廣裝修及維修知識，以建立完整生態圈整合解決方案。同時裝修佬亦與MoneySQ聯手推行智能合約，活用區塊鏈為客戶提供保障，以達至一站式裝修服務體驗。

Comments from Judging Panel
評審委員會評語

The solution is a very unique idea in the renovation market in Hong Kong. It is addressing a real problem in Hong Kong in which many consumers have difficulty in finding reliable interior renovation companies/ workers/ designers and in comparing/understanding their prices quotations. It is also creating harmony ecosystem where SMEs, such as interior renovation companies, designers and decoration product sellers, can do business in an one-stop O2O shop, which targets to attract consumers to procure decoration products and services in a convenient way. The team has received a major pre-A round funding and also plans to expand their business outside Hong Kong.

這個方案在香港的裝修市場是非常獨特創新的。它正在解決香港裝修市場的真正問題，許多消費者難以找到可靠的室內裝修公司/工人/設計師，以及比較/了解他們的報價。它創造了和諧生態系統給予中小企業，如室內裝修公司，設計師和裝飾產品銷售商，可以在一站式O2O商店開展業務，旨在吸引消費者以方便的方式採購裝飾產品和服務。該團隊已獲得一輪重要的融資，並已計劃在香港以外地區拓展業務。

Smart Business (Solution for SME) Silver Award
## 商業方案（中小企業）銀獎

Creote Studio Ltd.
WedCam
www.creote.com

WedCam is an award-winning Augmented Reality (AR) platform that let's businesses and organisations host and display its AR effects without the need to develop its own custom app.

With the rapid development of the Augmented Reality (AR) industry, the technology brings significant benefits to various industries including by providing a new medium for promotion, training, marketing, operations and more. AR technology requires a custom developed app to work and the development cost is often very expensive to adopt. It believes that AR is the future and it strives to create a solution where SME's can use and experience the benefits of AR with an affordable cost. It has designed and developed WedCam that allows companies to use AR without the need to develop their own app. It is highly beneficial for businesses and organisations that are looking for adopting AR with a tight budget or timeline.
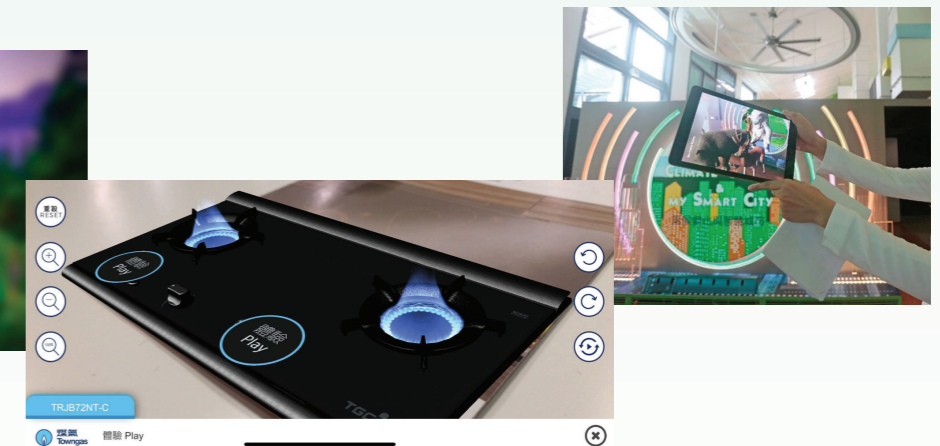
奇噢創新有限公司
WedCam

WedCam 是由 Creote Studio 設計及開發的一個多功能擴增實景 (AR) 平台，目的幫助各企業及機構減省套用 AR 的開發成本，從而讓更多企業和機構接觸及在日常運作中運用 AR。

AR 在近年是一個發展迅速的行業，而該技術亦為各行各業在不同範疇上帶來新的體驗和價值，例如市場推廣、產品展示、內部培訓、日常運作等等。 現有的 AR 技術需要透過一個特定的 APP 才能有體現，而度身定造的 APP 牽涉到的成本不低，讓很多渴望嘗試或運用 AR 的公司及機構卻步。他們深信 AR 將會成為他們未來很重要的一部份，希望可以製造一個新的方案讓市場在低成本的環境下可以將 AR 套用到公司或機構裡。他們致力設計及開發 WedCam 讓更多企業和機構在無須獨立開發自己的 APP 的前提下可接觸及在日常運作中運用 AR，特別為低預算及時間緊迫的項目提供解決方案。

Comments from Judging Panel
評審委員會評語

The WedCam solution helps SMEs apply quality Augmented Reality (AR) technology in the low-budget promotional activities in a fast and affordable way.

WedCam provides a standardised solution so that the users need not create their own AR apps and short production leadtime, which can reduce costing for the SMEs. WedCam supports advanced AR features such as image-based tracking, 3D object tracking, and code-based tracking.

WedCam解決方案幫助中小企業以低成本經濟地應用高質量的AR技術。

WedCam提供標準化解決方案，客戶無須創建自己的apps，從而縮短生產週期和降低中小企業的成本。WedCam支持高級AR功能，例如圖像跟踪，3D對象跟踪和代碼跟踪。

Smart Business (Solution for SME) Bronze Award
商業方案（中小企業）銅獎

Quikec International Ltd.
Smart Quality and Inspection Platform
www.quikec.com

Quikec's Smart Quality and Inspection Platform is developed to help SME companies to drastically improve their quality process in the merchandise supply chain. These companies face a lot of pains in quality process caused by high cost, inefficiency, lack of collaboration, tight timeline, high import standard and regulations globally etc. A huge cost wastage is created from such ineffective quality management. Quikec is here to provide customers an affordable suite of products to enable process collaboration and visibility, speed gains in quality activities, and also introduce intelligence to improve risk management. The product suite includes a cloud platform to manage key activities throughout the end-to-end process, smart devices paired with mobile apps to speed up the quality checking process, and an intelligent tool to identify and predict possible defects powered by artificial intelligence.

Quikec Smart Device

Quikec Smart Quality and Inspection Platform
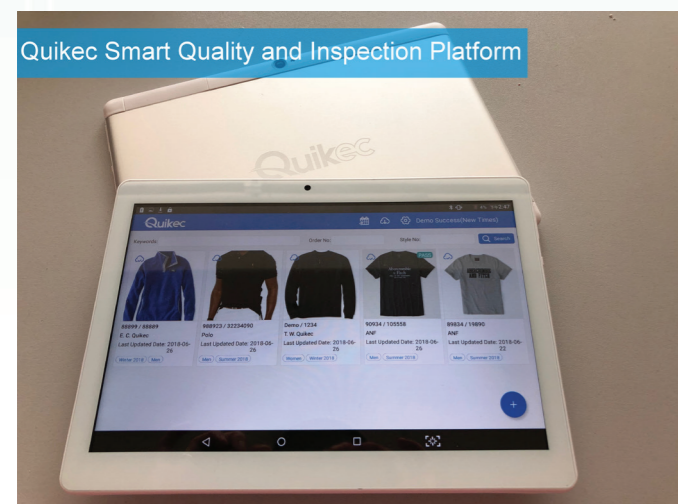
易迅國際有限公司
Quikec AI 質量品檢平台

大部份中小企在產品供應鏈上遇上各式各樣的品檢難題，當中包括高成本, 低效率, 欠缺程序透明度, 船期壓力, 以及世界各國不同而複雜的進口要求等等。 這些不合格產品檢測所帶來的不必要支出更是極為昂貴。為此易迅創建出一套中小企可負擔的質量品檢平台，令客戶們可利用雲端技術，配合智能設備與人工智能科技, 將產品供應鏈上的品檢難題迎刃而解。

Comments from Judging Panel
評審委員會評語

The Smart Quality and Inspection Platform provides a collection of mobile applications and smart devices (patterned device) with artificial intelligence for quality control inspectors to conduct quality testing and shipping inspections in a much productive and accurate fashion.

The platform can enable small manufacturers to meet the product quality standards required by their customers but also uplift the capability for Hong Kong organisations.

這個解決方案為質量控制檢查員提供了一系列帶有人工智能的移動應用程序和智能設備（如圖案裝置），以高效省時和準確的方式進行質量檢測。

該方案可以幫助中小型製造商滿足其顧客所要求的產品質量標準，同時也提升了工廠的生產能力。

Smart Business (Big Data and Open Data Applications) Silver Award
# 商業方案（大數據及開放數據應用）銀獎

ATAL Building Services Engineering Ltd.
ATAL's Cloud-based Chiller Plant
Energy Management Platform (EM-Platform)
www.atal.com

ATAL Building Services Engineering Ltd
安樂機電設備工程有限公司

'ATAL's Cloud-based Chiller Plant Energy Management Platform' is an all-in-one intelligent system leveraging big data analytics for achieving optimum performance and energy savings at chiller plants. 'ATAL's Dynamic Optimisation' is built upon the basis of self-trained physics-guided machine learning (ML) models using actual operating data. This ensures accurate modelling of the actual performance of chiller plant equipment.

- Advanced Data Management: Comprehensively collect, pre-process, enrich, store, and analyse data from various sensors in central chiller plants and relevant open data (e.g. HK Observatory's weather data etc.)
- Dynamic Optimisation: Fully optimise energy performance of the whole chiller plant in real-time using advanced physics-guided machine learning modelling and optimisation search techniques
- Automated Fault Detection and Diagnostics: Automatically detect and diagnose abnormal plant operation, equipment deterioration, unnoticed faults as well as sensor biases to provide actionable intelligence
- Energy Analytics and Data Visualisation: Continuously filter, analyse and visualise the performance data of major plant equipment through an interactive and modular visualisation platform
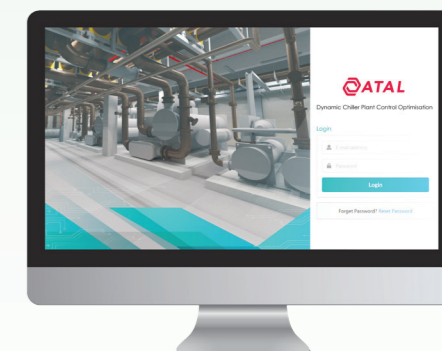
安樂機電設備工程有限公司
安樂工程雲端製冷機組能源管理平台

「安樂工程雲端製冷機組能源管理平台」是一個結合多功能於一身的智能系統，利用大數據分析發揮設備最佳性能及達到節能效益。系統的實時優化是以「自學式物理指導機器學習模型」建立，以實質運作數據作為基礎，有效確保模型反映製冷機組實際性能的準確性。

- 先進數據管理：通過雲端平台全面收集、前置處理、深化、儲存及分析來自中央製冷機組中的各種傳感器數據，以及政府的開放數據（例如天文台的天氣數據等）
- 實時操作優化：運用先進的模型建立和優化搜索技術，實時優化整個製冷機組的能源效益
- 自動故障檢測和診斷：自動檢測和診斷機組的異常運行、潛在問題、設備老化等情況，及評估傳感器的偏差，透過大數據分析以提供可行修正建議
- 能源分析和數據視覺化：通過模組可視化互動平台，用戶透過當中的持續過濾及分析功能展示出機組設備的能源消耗量和相關性能

Comments from Judging Panel
評審委員會評語

ATAL's Cloud-based Chiller Plant Energy Management Platform (EM-Flatform) solves an important need in reducing energy spending in large commercial buildings, by better control of the chiller systems. The application is based on big data and AI machine learning. It has good potential in any market around the world.

安樂工程雲端製冷機組能源管理平台通過控制製冷氣冷卻系統，幫助減低大型商業大廈的耗電量。該應用程式是運用了大數據和人工智能技術。它在全球任何市場都有很大的潛力。

Smart Business (Big Data and Open Data Applications) Bronze Award
# 商業方案（大數據及開放數據應用）銅獎

Gekko Artificial Intelligence Ltd.
Gekko Graph

www.gekko.ai

Gekko Lab is a Hong Kong-based RegTech startup for financial intelligence and investigation, whose graphical network analytics software and built-in proprietary database enhance users' capability to detect and manage risks using data analytics.

Its core product Gekko Graph makes monitoring capital market connections and risks ever easier. The company builds a unique database for tracking deep-level relationships and behaviours among Hong Kong and China financial entities. Gekko Graph has an interactive visualisation interface that empowers users to build visual intuition and uncover hidden insights from various datasets instantly.

Gekko Graph not only helps users with more insightful and efficient due diligence research, but also helps make the capital market more transparent, solidifying Hong Kong's role as a premium international financial centre.
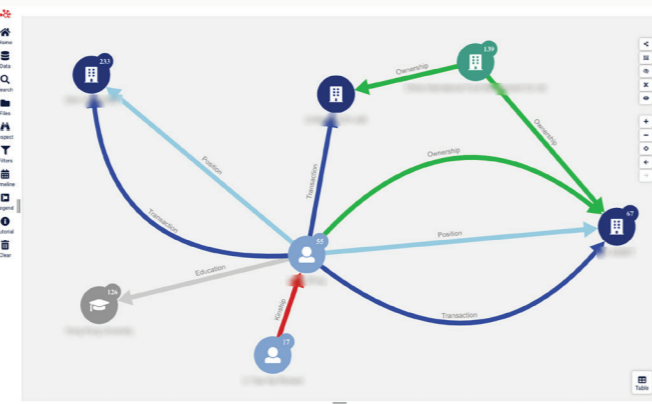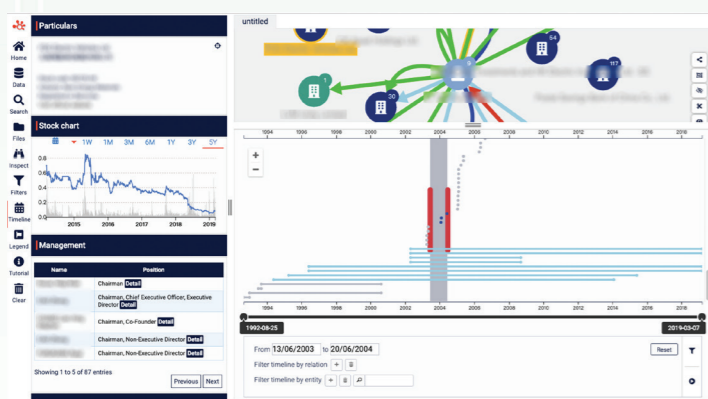
Gekko Artificial Intelligence Ltd.
Gekko Graph

Gekko Lab 是一家位於香港的監管科技和數據公司，其圖形網絡分析軟件和獨有的數據庫增強了用戶檢測和管理風險的能力。

他們的核心產品 Gekko Graph 可以令市場監管和合規調查過程更輕鬆地進行。他們建立獨特的數據庫，用於追蹤香港和中國市場人物和公司實體之間的深層關係。該解決方案具有一個交互式可視化界面，使用戶能夠從各種數據集中迅速發現平時不容易發現的關係。

Gekko Graph 不僅幫助用戶創建更具洞察力的盡職調查流程，他們的使命是利用技術和數據提高整體資本市場的透明度和規範性，鞏固香港作為優質的國際金融中心的地位。

Comments from Judging Panel
評審委員會評語

The Gekko Graph uses big data to visualise complex relationships among corporations and individuals.

It has large market potential. Although designed with HK data, the product has potential to expand into other markets, once it incorporated with addition data.

Gekko Graph使用大數據來分析公司和個人之間的複雜關係。它具有巨大的市場潛力。

雖然現在只包含香港數據，但該產品如能附加更多數據，就有潛力擴展到其他海外市場。

Introduction of Leading Organiser
籌辦機構簡介

The Hong Kong Computer Society (HKCS) is a well-established non-profit organisation that has been striving to improve and develop Hong Kong's Information and Communication Technology (ICT) industry since its founding in 1970.

HKCS is the first officially recognised professional association for the ICT industry in Hong Kong, dedicated to the promotion of the highest professional standards for the industry. Members hail from a broad spectrum of Hong Kong's ICT industry, from corporations to like-minded individuals, all coming together to raise the profile of the industry.

During its over 40 years' history, HKCS members have come to form the core of a wide and influential network throughout the whole spectrum of Hong Kong services and other industries. The Society offers a chance for Hong Kong's communities to exchange ideas and to carry out a dialogue with the Government regarding ICT and its impact to the society. Being a highly active association, HKCS is regularly organising many activities to help promote ICT in Hong Kong, including lectures, discussions, seminars, and open forums on subjects related to ICT.

香港電腦學會成立於一九七零年，為本港資訊及通訊科技界最具規模的非牟利專業團體之一。學會成立目的為促進香港資訊及通訊科技的發展、作為普及電腦知識的媒介機構、推廣最新資訊科技和產品的認識、及提高業內的專業操守。

作為本港首個獲正式認可的資訊及通訊科技界專業團體，學會在業界具專業權威及代表性。會員共分個人及公司兩類，來自資訊及通訊科技業界的各種範疇，包括各大商業、科研及教育機構和從事資訊及通訊科技的專業人士。會員獲本港及亞洲區資訊及通訊科技行業廣泛認可。

香港電腦學會成立四十多年來，已建立一個涵蓋各服務行業和其他行業、富代表性及具影響力的會員網絡。一直以來，學會憑藉其專業知識及影響力，積極在社會大眾與政府之間搭建溝通的橋樑，成功促進彼此在資訊及通訊科技方面的意見交流。此外，學會亦不斷積極為業界和會員策劃及組織各類活動，包括以資訊及通訊科技為主的專題講座、研討會、公開論壇及考察活動。

Enquiry
查詢

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Notes
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Hong Kong ICT Awards 2019 香港資訊及通訊科技獎

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CSA cloud security alliance℠

CAHK 香港通訊業聯會 Communications Association of Hong Kong

CHKCI 香港電腦商會 The Chamber of H.K. Computer Industry

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

HKIE THE HONG KONG INSTITUTION OF ENGINEERS 香港工程師學會 Information Technology Division 資訊科技分部

IOTA Hong Kong Internet of Things Alliance

hk Hong Kong Internet Registration Corporation Limited 香港互聯網註冊管理有限公司

Hong Kong Internet Service Providers Association HKISPA

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@ISIA

ISACA China Hong Kong Chapter

iProA Internet Professional Association 互聯網專業協會

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SCC 智慧城市聯盟 Smart City Consortium

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