HONG KONG ICT AWARDS 2024 香港資訊及通訊科技獎

Smart Business Award
商業方案獎

Smart Business Award

Emerging Technologies
新興技術

Solution for Business and Public Sector Enterprise
商業及公營機構

Solution for SME
中小企業

Leading Organiser
籌辦機構

HONG KONG COMPUTER SOCIETY
香港電腦學會

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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 50 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。

香港電腦學會成立超過五十年，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。

Background
背景

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

The HKICTA was established in 2006 with the collaborative efforts of the industry, academia and the Government. Organised by the Digital Policy Office, and led by Hong Kong ICT industry associations and professional bodies, the Awards aims at building a locally espoused and internationally acclaimed brand of ICT awards.

There are eight categories under the HKICTA 2024. 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. In addition, in a bid to foster the innovative use of artificial intelligence (AI), each of the eight categories has established a new distinguished accolade: the “Best Use of AI” award, magnifying and honouring outstanding achievements in harnessing the power of AI in respective areas.

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。

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數字政策辦公室舉辦，並由香港業界組織及專業團體籌辦，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。

2024香港資訊及通訊科技獎設有八個獎項類別。每個類別均設有一個大獎，而最終評審委員會再從八個大獎中甄選出「全年大獎」。此外，為了激發更多人工智能的創新應用，每個獎項類別都增設一個嶄新獎項:「最佳人工智能應用」獎，以彰顯並表揚那些在相關範疇應用人工智能方面取得傑出成就的參賽作品。

Message from Dr Rocky CHENG
鄭松岩博士獻詞

HONG KONG COMPUTER SOCIETY
香港電腦學會

Dr Rocky CHENG
President of Hong Kong Computer Society
鄭松岩博士
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 2024: Smart Business Award" 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 Digital Policy Office (DPO), a new department merging the Office of the Government Chief Information Officer and the Efficiency Office, of the Government of the SAR 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 am tremendously impressed by the quality of this year's entries, as well as the effort and dedication of our ICT professionals in creating such innovative products. They not only demonstrate the great advancement of the industry, but also contribute to a better community. Their participation makes "Hong Kong ICT Awards 2024: Smart Business Award" a wonderful success.

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. Their contribution is much crucial to the success of the project.

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「2024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，能獲香港特別行政區政府數字政策辦公室（由政府資訊科技總監辦公室合併而成的新部門）委任為商業獎類別的主辦機構。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。

今年參賽作品依然維持高質素，而各位ICT專業人員在創新產品上所付出的努力及投入，亦令人深受感動。他們不僅展示出行業的不斷進步，亦為創造更美好的社群作出貢獻。他們的參與，對「2024香港資訊及通訊科技獎：商業方案獎」能達致成功，居功至偉。

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。各位的貢獻對於本項目的成功，居功至偉。

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 Dr Albert WONG
王君弼先生獻詞

Dr Albert WONG
Chairperson of the Organising Committee,
HKICT Awards 2024: Smart Business Award
王君弼博士
「2024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 honor for me to serve as Chairperson of the Organising Committee of such a coveted award, which promotes innovation and excellence in the ICT industry. The Hong Kong ICT Awards: Smart Business Award has been running for 18 consecutive 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 3 different streams. They are Solution for Business and Public Sector Enterprise; Solution for SME and the Emerging Technologies. All the award recipients are selected based on the viability of their IT solutions in meeting evolving business and social needs.

My heartfelt thanks goes to the organiser, Digital Policy Office (DPO), for their on-going support and all the members of the Organising Committee, the judging panel, the supporting organisations, and the Hong Kong Computer Society Secretariat for their time, dedication, and effort throughout the whole event. The Hong Kong ICT Awards 2024: Smart Business Award would not have been possible without their support and assistance.

Last but not least, I would like to send my sincere appreciation again to the participants and winners this year 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 international Innovation and Technology 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：商業方案獎」已經連續舉辦了十八年，得到政府、業界組織、專業團體和學術界的踴躍支持。今年收到很多高質量的參賽作品，我們很高興看到這個獎項多年來一直在不斷發展壯大。

「香港資訊及通訊科技獎」的「商業方案獎」，目的是鼓勵香港資訊及通訊科技業尋求創新，表揚來自3個不同範疇的傑出人材，包括商業及公營機構、中小企業及新興技術。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。

本人衷心感謝主辦單位香港特區政府數字政策辦公室一直以來的支持；以及籌備委員會、評審委員會、支持機構，以及香港電腦學會秘書處的所有成員，他們在整個活動過程中，貢獻了寶貴的時間和提供專業的意見。你們的助力與支援，對本年度的香港資訊及通訊科技獎2024: 商業方案獎達致成功，實在功不可沒。

當然，還要再次感謝所有在這些優秀得獎作品背後的參與者和開發者，你們的熱誠與投入，是讓香港不論現在或未來，繼續保持其國際創新科技中心的地位的力量。

Message from Prof Paul LAM Kwan-sing, SBS, JP
林群聲教授SBS, JP獻詞

Prof Paul LAM Kwan-sing, SBS, JP
Chairperson of the Judging Panel of
HKICT Awards 2024: Smart Business Award;
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「2024香港資訊及通訊科技獎：商業方案獎」
評審委員會主席及香港都會大學校長

It is an honour to be Chairperson of the Judging Panel for the Hong Kong ICT Awards 2024: Smart Business Award. As usual, the panel has been impressed by the quality of the entries and delighted that the standard of the competition has reached such a high level.

Information and communication technology (ICT) is essential for improving the operational efficiency and productivity of business enterprises, as well as the whole of society. The Hong Kong ICT Awards 2024: Smart Business Award provides an excellent platform for local companies and institutions to demonstrate remarkable products and applications that enhance the effectiveness of business enterprises and public sector organisations.

The Organising Committee is extremely pleased to see the strong participation and encouraging entries in the Awards this year, especially in the Smart Business Award category, which covers three streams: Solution for Business and Public Sector Enterprise, Solution for SME, and Emerging Technologies. After a careful assessment, the winners were selected based on their success in meeting the five judging criteria: creativity, functionality, market potential, impact and quality.

As Chairperson of the Judging Panel, I had the privilege of working with a highly competent panel of judges and saw some remarkable ICT talent and their inventions this year. I sincerely hope that the Awards will continue to flourish and that many other original IT products and services will be created to benefit businesses and society as a whole.

本人很榮幸成為「2024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，具至關重要的作用。「2024香港資訊及通訊科技獎：商業方案獎」為本地公司及團體提供一個廣獲認同的平台，展示有助提升商界企業及公營機構效能的優秀產品。

我們樂見今年參賽情況踴躍，特別在商業方案類別。今屆本類別的三個範疇，包括商業及公營機構、中小企業、新興技術等，均收到不少高水平的參賽作品。經嚴格評審，基於五項評審準則，包括創意、功能、市場潛力、影響力及質素，優秀作品最終脫穎而出。

作為評審委員會主席有幸與一支專業的評審委員團隊合作，見證本年度傑出資訊及通訊科技人員發明的「智能」商業方案優秀作品。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

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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

Transcendence Company Limited 海宏技術有限公司

https://www.csmarthk.com/en/index.html

TRANSCENDENCE

C-SMART Site Safety System

The C-SMART Site Safety System is a groundbreaking initiative aimed at improving safety standards on construction sites in Hong Kong. By leveraging advanced technologies like Artificial Intelligence (AI), the Internet of Things (IoT), and cloud computing, this system offers a comprehensive array of 16 distinct safety solutions to address the critical challenges faced in the construction industry.

Key features of the system include AI-driven safety monitoring, advanced fire detection, real-time personnel tracking, smart watch and smart lock, etc. These innovations work synergistically to identify and mitigate safety risks, ensuring a safer environment for all workers. The system's integration of sensors and 4G/5G connectivity facilitates immediate data sharing and response, enhancing operational efficiency.

Notably, the system not only meets but exceeds the Hong Kong Development Bureau's requirements for Smart Site Safety System (SSSS), setting a new standard for construction safety. With successful deployment across over 100 sites, the system has gained recognition from industry leaders and government departments, underscores its effectiveness in reducing accident rates and improving overall safety outcomes. With its advanced features, innovative solutions, and adaptability, the C-SMART Safety System is positioned to revolutionize the way construction projects are executed, paving the way for a safer future.

C-SMART智慧工地安全系統

建築工地環境複雜多變，容易發生各類工業意外，C-SMART智慧工地安全系統利用人工智能（AI）、物聯網（IoT）和雲端運算等先進技術，提供16種安全解決方案，有效應對工地意外風險，並為香港工地安全定立標準。

系統主要功能包括人工智能安全監測、潛在火災偵測、人員實時動態管理、智能手錶及智能鎖等，配合各類傳感器和4G/ 5G連接，安全數據能即時上傳至中央管理平台，並在工地管理人員和安全主任之間共享。一旦出現潛在意外風險，相關人員能迅速有效地應對。

香港政府近年積極推行工地數字化，C-SMART智慧工地安全系統不僅100%符合發展局智慧工地安全系統（SSSS）的要求，更提供多項額外創新且全面的安全管理方案。系統已在逾100個工地成功部署，並獲得業界和政府部門認可，有效降低意外率及加強整體工地安全。透過整合先進技術，系統為工人提供更安全和健康的工作環境，賦能建築和施工管理邁向更智能、更可持續的發展方向。

Comments from Judging Panel
評審委員會評語

The C-SMART Site Safety System involves the innovative application of IT technologies, such as Artificial Intelligence, machine learning, cloud computing, the Internet of Things, sensors, 4G/5G networks, and Building Information Modeling (BIM) at construction sites in Hong Kong.

The system aims to provide 16 solutions to manage safety risks and has been tested at over 100 construction sites.

The system facilitates the consolidation of data on one single centralized platform. The analysis of collected data can continuously improve and optimize safety protocols, leading to improved operational efficiency and enhanced safety for all employees, from managers to frontline workers, at construction sites.

If properly implemented, this system can set a new safety standard for construction sites in the region.

The project has an important implication for and a wide impact on the construction industry and can potentially benefit a large number of operators and workers.

C-SMART Site Safety System利用人工智能、機器學習、雲端運算、物聯網、感應器、4G/5G 網絡和建築信息模擬技術（BIM）等先進資訊科技，應用於香港的建築工地。

該系統旨在提供 16 個管理安全風險的方案，並已在100多個建築工地進行測試。

該系統有助於將數據集中在一個中央平台，分析收集到的數據可不斷改進和優化安全機制，從而提高工作效率及提升所有員工（從管理人員到前線工人）在建築工地的安全。

若系統得以適當地實施，可以為香港訂立新的建築工地安全標準。

這項目對建築行業具重大意義，並對其產生廣泛影響，並可惠及大量的建築商和工人。

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

機電工程署
EMSD

Electrical and Mechanical Services Department
機電工程署 https://www.emsd.gov.hk/

Ball Type Rolling Robot for inspection and rescue

協助視察及救援工作的球型機器人

The invention is a compact ball type rolling robot designed for accessing hard-to-reach areas to conduct inspections, rescues and negotiations where large robots and drones cannot operate.

The ball robot is compact, robust, droppable and throwable, making it suitable for complex scenarios. It is equipped with cameras, voice systems, and multiple communication modes, enabling remote video and voice interaction.

The robot can navigate locations that are inaccessible to large robots and drones, overcoming physical limitations in scenarios such as narrow tubes and caves. It enables comprehensive inspections by capturing videos from the best angles. The inspection effectiveness is enhanced through two-way communication for real-time feedback and instruction.

The robot has high mobility and is easy to control. It can be precisely remote controlled by joystick or phone via 4G, 5G or WiFi. It has a 10-degree slope traversal capability and is self-adjustable to capture videos at optimal angles.

The robot can be used for environmental monitoring, especially in hard-to-reach places like caves, underground pipelines, etc., to collect environmental data. It is also suitable for monitoring and security purposes, utilizing its flexible mobility and stable structure to patrol and monitor complex environments, particularly in large public places, factories, and residential areas.

Furthermore, the ball robot can be used for negotiation and remote surveillance. It can be remotely controlled to enter target locations to collect intelligence and engage in negotiations. In the event of a disaster, it can access dangerous or narrow areas for search and rescue missions, helping to locate survivors.

這項發明是一個小巧的球形滾動機器人，旨在進入大型機器人和無人機都難以到達的區域進行檢查、救援和談判。

機器人體積小巧、堅固、可投擲，適用於複雜場景。它配備了攝像鏡頭、語音系統和多種通信模式，支援遠程視頻和雙向溝通。

它可克服空間狹窄的限制，能在大型機器人和無人機無法進入的位置移動，作全面檢查。它同時能夠透過雙向通信，作實時回應，提高檢查效率。此外，機器人易於操作，可由操縱桿或手機，經4G、5G或WiFi進行遠程控制，使它精確靈活移動。它更具有10度爬坡能力，可以自我調整以最佳角度拍攝。

機器人可用於環境監測，特別是在洞穴、地下管道等難以到達的地方收集環境數據。它也適用於監控和保安，其靈活移動性和穩定的結構，尤其適合在複雜的環境巡邏和監控，如大型公共場所、工廠和住宅，等。

此外，機器人可以用於談判和遠程監控，進入目標位置收集情報並進行談判。在災難發生時，它可以進入危險或狹窄區域進行搜救任務，幫助尋找倖存者。

Comments from Judging Panel
評審委員會評語

The EMSD Ball Type rolling robot is a patented device that evolves from the throw-type device back in 2004. The Ball Robot has camera, microphone, speaker, attitude sensor, WiFi and 5G modules in a compact ball-type enclosure with two motorised wheels. It is capable to capture videos from the best angle. Because of its compact size and mobility, it can reach out to pipes, drainages, caves, unreachable terrain and landscape which works well in most search and secure mission. It is a perfect example of joint collaboration from research institution, commercial and government organisations. The business model is also different from traditional approach. The plan is to offer it free (subsidised by government) to government department in needs. The presenting team mentioned it could be at a price range of several thousand dollar (HKD) in the commercial market but not in their plan yet. The presenting team also responded to the assessors that they can add bouncing 'legs' so that the robot can jump over (climb) stairs/slopes in the future.

機電工程署球型滾動機器人是一項專利設備，源於2004年的投擲式設備。這款球型機器人在一個袖珍的球形外殼中內置攝像頭、麥克風、揚聲器、姿態感應器、WiFi和5G模組，並配備兩個電動輪。它能夠從最佳角度拍攝視頻。由於其袖珍的尺寸和靈活性，它可以到達管道、排水系統、洞穴、無法到達的地形和景觀，這在大多數搜索和安全任務中表現出色。這是由研究機構、商業機構和政府部門聯合協作的完美範例。其商業模式也與傳統模式不同。計劃是向有需要的政府部門免費提供（由政府補貼）。團隊表示，這款設備在商業市場的價格範圍可能在幾千港元，但目前不在他們的計劃中。團隊還回應評審稱，該設計將來還可以添加彈跳式的"腿部"，使機器人能夠跳躍（攀爬）樓梯/斜坡。

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

Hong Kong Housing Authority
香港房屋委員會

www.housingauthority.gov.hk

香港房屋委員會
Hong Kong Housing Authority

Hong Kong Housing Authority Project Information Management and Analytics Platform (HA-PIMAP)

香港房屋委員會項目資訊管理及分析平台 -「智築目」

The Hong Kong Housing Authority (HA) is a statutory body established in April 1973 under the Housing Ordinance. The HA develops and implements a public housing programme which seeks to achieve the Hong Kong Government's policy objective of meeting the housing needs of low-income families that cannot afford private accommodation. The HA currently manages over 820,000 public rental housing flats, and is expediting the construction of 308,000 flats to meet the public housing demand in the upcoming 10 years. To cope with the massive amount of public housing construction, the HA has been embracing innovation and technology to continuously strengthen the safety, efficiency, productivity, and sustainability of public housing development.

The Hong Kong Housing Authority Project Information Management and Analytics Platform (HA-PIMAP), a new milestone in the digitalisation of public housing development and construction, is an all-in-one digital management platform that can leverage Building Information Modeling (BIM) and Geographic Information System (GIS) technologies, and adopts three-dimensional digital maps to integrate data from over 200 public housing projects with various dynamic base map layers, displaying comprehensive overview for all projects and their key performance indicators (KPIs).

HA-PIMAP utilises open format data and Digital Twin technology for the multi-disciplinary project teams to visualise information under whole lifecycle from planning, design, construction, to handover in virtual environment, and perform analyses on the standardised data in the platform for early detection and resolving problems to manage project risk in ensuring on-time project delivery. In particular, the platform allows remote monitoring of project progress and safety performance. As the largest housing developer in Hong Kong, the HA will continue to expand the use of HA-PIMAP and leverage technologies to lead the industry to bring innovation revolution for Hong Kong's future housing development.

香港房屋委員會（房委會）是於1973年4月根 據《房屋條例》成立的法定機構，為不能負擔私人樓宇的低收入家庭解決住屋需要。房委會現時管理超過820,000個公共租住房屋單位，亦正在大力興建308,000個公營房屋單位以滿足未來十年的住屋需求。為應付龐大的公營房屋工程量，房委會一直大力應用創新科技，持續提升建造公營房屋的安全、效率、生產力及可持續性。

香港房屋委員會項目資訊管理及分析平台「智築目」是將公營房屋發展及建造數碼化的新里程碑。「智築目」是一站式數碼管理平台，可以利用建築信息模擬和地理資訊系統技術，善用三維數碼地圖，串連及整合超過200個公營房屋項目數據及底圖，展示項目的綜合概覽及其相關的關鍵績效指標。

「智築目」使用開放式數據，透過數字孿生技術讓跨領域工程團隊在虛擬環境演示規劃、設計、建造和交付的全周期流程，工程團隊可以在平台上對標準化的數據進行詳細分析，及早發現及處理問題，有效管理風險，確保項目準時完工，特別是可以在建造階段遠端監察項目的進度和安全表現。房委會作為香港最大房屋開發者，將擴展使用「智築目」及利用科技領導業界為未來香港房屋發展帶來創新變革。

Comments from Judging Panel
評審委員會評語

The HA-PIMAP platform employs 3D digital maps as its base layer and leverages Digital Twin technology to link and integrate data from BIM, GIS, site inspection records, 3D models by reality capture as well as to integrate information from different processes in public housing construction projects. It is remarkable that the platform collects information from over 100 micro-services among government data sources. In the AI aspect, by collecting past building defects, the computer vision (AI) can assist in identifying defects during site inspection. The success story of HA-PIMAP serves as a model for adoption by private developers and even for project initiatives in GBA.

HA-PIMAP 平台採用 3D 數位地圖作為基礎層，並利用數碼分身技術來連結和整合來自 BIM、GIS、現場檢查記錄、透過實境捕捉的 3D 模型等資料，同時整合不同公共住房建設專案中的流程資訊。平台能夠從政府數據來源的 100 多個微服務中收集資訊，這一點非常引人注目。在人工智能方面，通過收集過去的建築瑕疵，電腦視覺（AI）可以協助在現場檢查中識別瑕疵。HA-PIMAP 的成功故事可作為私人開發商借鏡，甚至可應用於大灣區的專案倡議。

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

Registry, Lingnan University / Set Sail Venture Limited
嶺南大學教務處 / 啟航創投有限公司

www.ln.edu.hk/reg
www.chatbot.com.hk

GenAI Email Automation

The Email AI Supervisor is a revolutionary email management technology that acts as a centralized AI entity for an entire organization. Unlike traditional email tools that serve as personal assistants for individual employees, the Email AI Supervisor organizes all incoming emails, delegates messages to the appropriate staff member, provides draft replies, and manages priorities with unparalleled efficiency. The Email AI Supervisor utilizes advanced Document AI models to comprehend complex email attachments, such as PDFs, Word documents, Excel files, and PowerPoints, and contextualize their content.

The Email AI Supervisor offers a range of functionalities, including LLM Email Classification, LLM Sentiment Analysis, LLM Priority Labelling, LLM Summarization, AI Training, Document AI Models, Email Topic Classification, and Drafting Responses. These features allow the Email AI Supervisor to automatically categorize emails based on their content, assess the tone and sentiment of emails to prioritize responses, label emails by urgency and importance, provide concise summaries of lengthy emails, customize responses and actions based on previous email templates and main topics, identify and classify multiple topics within a single email, and utilize templates to draft accurate and relevant email replies.

The benefits and impact of the Email AI Supervisor are profound. It significantly reduces the time employees' time on email management, allowing them to focus on higher-value tasks. The Email AI Supervisor ensures that all email communications adhere strictly to the company's approved knowledge and communication guidelines, leading to more intelligent and effective email handling. It drastically reduces the time taken to respond to emails, improving overall communication flow within the organization.

In conclusion, the Email AI Supervisor represents a groundbreaking leap in email management technology. Its ability to offer a range of functionalities, utilize advanced Document AI models, and significantly reduce the time employees spend on email management makes it a valuable asset for any organization. The Email AI Supervisor is a game-changer that can enhance productivity, consistency, and overall organizational communication flow.

GenAI 電郵自動化

AI電郵主管是一種革命性的電子郵件管理技術，可作為整個組織的集中式AI管理。與為個別員工提供個人助手的傳統電子郵件工具不同，AI電郵主管可以組織所有收到的電子郵件，將郵件分配給適當的工作人員，提供草擬回覆並以高效率管理優先順序。AI電郵主管利用先進的文檔AI模型來理解複雜的電子郵件附件，例如PDF、Word文檔、Excel和PowerPoint，並將其內容情境化。

AI電郵主管提供了一系列的功能，包括LLM電子郵件分類、LLM情感分析、LLM優先標籤、LLM摘要、AI培訓、文檔AI模型、電子郵件主題分類和草擬回覆。這些功能使AI電郵主管能夠根據內容自動分類電子郵件，評估電子郵件的語調和情感以優先回覆，按緊急程度和重要性標記電子郵件，提供簡潔的長電子郵件摘要，根據以前的電子郵件模板和主題自定義回覆和操作，識別和分類單個電子郵件中的多個主題，並使用模板草擬準確和相關的電子郵件回覆。

AI電郵主管的好處影響深遠。它顯著減少了員工在電子郵件管理的時間，使他們能夠專注於更有價值的任務。AI電郵主管確保所有電子郵件通訊嚴格遵守公司批准的知識和通訊準則，從而實現更智能和有效的電子郵件處理。它大大減少了回覆電子郵件所需的時間，改善了整個組織的通訊流程。

總括而言，AI電郵主管代表了電子郵件管理技術的一個突破性飛躍。它能夠提供一系列的自動功能，利用先進的文檔AI模型，顯著減少員工在電子郵件管理的時間，使其成為任何組織的寶貴資產。AI電郵主管是革命性的產品，可以提高組織的生產力、一致性和促進整個組織的通訊效率。

Comments from Judging Panel
評審委員會評語

The GenAI eMail solution employs AI technology to solve the task dispatch and assignment on free-text email message which was previously performed manually by a team of 50+ staff members in the university administration. The solution classifies, analyses, prioritises and summarises messages based on dynamic knowledge retrieval engine which can digest not only single email message but also the full email chain history. It even drafts relevant responses via built-in templates. It achieves low halluciation rate (< 0.5%) as compared to the ChatGPT (~ 28.6%). It has the capability to rank and prioritise tasks through labelling email urgency and importance. It does not disrupt corporate (client) email server as all processing runs on its own server.

The solution can be extended to broader business use cases such as CRM agent, case management, booking agent, sales agent and admin task agent.

GenAI電子郵件解決方案採用人工智能技術，解決了大學行政部門原本由50多名員工手動執行的任務分派和指派工作的問題。 該解決方案基於動態知識檢索引擎，對郵件進行分類、分析、優先排序和總結，不僅可以處理單個電子郵件，還可以處理整個電子郵件串的歷史。 甚至可以通過內置模板起草相關的回覆。 與ChatGPT（~28.6%）相比，這個解決方案的幻覺率低於 0.5%。 它具有通過標記電子郵件緊急性和重要性來排列和優先處理任務的能力。 由於所有處理都在其自有的伺服器上進行，因此它不會干擾公司（客戶）電子郵件伺服器。

該解決方案可以擴展到更廣泛的業務應用案例，例如客戶關係管理代理、案例管理、預訂代理、銷售代理和行政任務代理。

Smart Business (Emerging Technologies) Gold Award and "Best Use of AI" Award
商業方案(新興技術)金獎及「最佳人工智能應用」獎

Electrical and Mechanical Services Department
機電工程署 https://www.emsd.gov.hk

機電工程署 EMSD

CHILL STREAM®

ChillStream® AI chiller optimizer

ChillStream®, a scalable Analytics-as-a-Service (AaaS) solution for real-time optimized control of chiller plant developed in-house by the Electrical and Mechanical Services Department (EMSD), transforms traditional rule-based chiller plants into ones adaptive to environmental changes.

Hosted at the Regional Digital Control Centre (RDCC) in EMSD headquarters, ChillStream® predicts cooling demand and equipment performance to optimise control of the target chiller plant through a hybrid Genetic Algorithm-Particle Swarm Optimisation (GA-PSO) algorithm based on weather conditions and real-time data from remote government buildings. Having put into trial at the Public Health Laboratory Centre, ChillStream® proved to be effective in continuous commissioning with an overall annual energy saving of up to 5%, demonstrating the practicability of utilising AI technologies for energy saving without compromising thermal comfort or the stringent operating conditions of the Laboratory.

With the established infrastructure of RDCC and digitalized electrical and mechanical (E&M) assets at government buildings, ChillStream® can be replicated and adjusted to accommodate the unique configurations of chiller plants in various buildings and operating conditions, enabling simultaneous real-time optimisation of chiller plants across the city, and contributing towards carbon neutrality.

ChillStream®人工智能製冷機組優化系統

由機電工程署自主開發的ChillStream®是一種可擴展的分析即服務（AaaS）方案，用於實時優化製冷機組的運作表現，將傳統基於規則操作的製冷機組轉變為能夠適應環境變化的系統。

ChillStream®於機電工程署總部的「區域數碼監控中心」實時分析天氣情況和來自政府建築物的數據，預測冷卻需求和設備效能，並利用「混合基因演算法與粒子群算法」優化目標製冷機組的控制。ChillStream®已於公共衛生檢測中心進行試驗，證明了其在持續校驗中的有效性，整體全年節能高達百份之五，顯示了在不影響實驗室嚴格環境要求和舒適度的前提下，應用人工智能技術於節能的可行性。

通過已建立的區域數碼監控中心基礎設施以及政府建築物中的數碼化機電設備，ChillStream®可以複製至不同建築物，並加以調整以適應各種具備不同運行條件的製冷設備，實時優化遍佈各區的製冷機組，為實現碳中和作出貢獻。

Comments from Judging Panel
評審委員會評語

The solution incorporates an ESG element with a custom-built ANN model, offering substantial savings where a 5% reduction equates to HK$50 million, with a payback period of 2 years. It operates in real-time, factoring in variables like weather data, while prioritizing safety through integration with the Building Management System. An area of concern lies in scaling and deploying the solution across other premises, along with potential compatibility challenges. The core strategy involves optimizing the building's chiller system by leveraging AI to accurately estimate chiller water requirements, focusing on ESG goals and cost-effectiveness.

此解決方案將 ESG 元素與客製化的 ANN 模型結合，可節省大量成本，其中5%的減少相當於五千萬港元，投資回收期為 2 年。它實時運行，考慮天氣數據等變數，同時透過與建築管理系統整合來優先考慮安全。一個值得關注的部分是如何在其他場所擴展和部署該解決方案，以及潛在的相容性挑戰。核心策略包括利用人工智能來優化建築的冷卻系統，準確估算冷卻水需求，並需關注 ESG 目標和成本效益。

Smart Business (Emerging Technologies) Gold Award
商業方案(新興技術)金獎

YOOV Internet Technology (Asia) Limited
優科互聯網科技 (亞洲)有限公司 https://www.yoov.com

YOOV NEXA

YOOV NEXA is an advanced AI-powered business assistant designed to transform operations across any industry or department—whether for customer service, sales, HR, or beyond what you can imagine. It adapts to any role, drastically reducing manpower, increasing efficiency, and ensuring high accuracy in your business processes.

The uniqueness of YOOV NEXA lies in its firewall design, which, through training, can effectively identify or filter out malicious or irrelevant messages and respond appropriately, further optimizing the user experience.

Training YOOV NEXA is simple—just upload documents or website links, and it learns automatically. It handles a wide range of tasks, including repetitive ones, with ease. Integrated with platforms like websites, WhatsApp, and email, YOOV NEXA works 24/7 in over 100 languages.

YOOV NEXA's most powerful feature is its ability to integrate seamlessly with various management systems such as CRM, inventory and more. Unlike a standalone AI chatbot that only responds to inquiries, YOOV NEXA goes beyond by actively interacting with real-time data from these systems, allowing for comprehensive automation of workflows.

For instance, when connected to your CRM, YOOV NEXA can access customer information in real-time, providing instant, personalized responses to customer inquiries or automating follow-up actions like sending emails or scheduling meetings.

This real-time interaction with multiple systems allows NEXA to automate entire business processes. From managing customer relationships to streamlining operations like order processing, invoicing, and staff management, YOOV NEXA creates an interconnected network where data flows seamlessly, allowing businesses to operate more intelligently.

As businesses evolve, YOOV NEXA will play a critical role in improving productivity, streamlining operations, and reducing costs, allowing companies to scale faster and compete more effectively in the near future.

YOOV NEXA 是一款AI 商業助理，專為各行各業或部門的業務運營而設計，無論是用於客戶服務、銷售，甚至超越您所能想像的場景。它能靈活適應任何角色，大幅減少人力，提升工作效率及準確性。

YOOV NEXA 獨特之處在於其防火牆的設計，透過訓練，能有效辨識或過濾惡意或不相關訊息，並作出適當回應，進一步優化用戶體驗。

訓練 YOOV NEXA 十分簡單，只需上傳文件或網站連結，它就會自動學習並處理各類任務。YOOV NEXA 能與網站、WhatsApp 和電郵等平台整合，並且能夠 24/7 提供服務，支援超過 100 種語言。

YOOV NEXA 最強大的地方是能連接各類管理系統（如 CRM、庫存管理等）。不同於僅能回應查詢的AI聊天機器人，YOOV NEXA 還能實時與系統數據進行互動，實現全面的工作流程自動化。

例如，當 YOOV NEXA 與 CRM 系統連接時，它可以實時獲取客戶信息，提供即時且個性化的回應，自動執行後續操作，如發送電郵或安排會議。

這種與多個系統的實時互動使 YOOV NEXA 能夠自動化整個業務流程，使數據無縫流動，讓企業更智能地運行。

隨著企業的發展，YOOV NEXA 將在提升生產力、簡化操作和降低成本方面發揮關鍵作用，幫助企業更快擴展並在未來更具競爭力。

Comments from Judging Panel
評審委員會評語

Consider the risk of the LLM model with a moderation module designed to prevent data leaks, utilizing channels restricted to Teams, Zoom, and WhatsApp. The application extends beyond customer use to internal functions such as HR, Property Management, and Insurance. It supports Cantonese with speech-to-text functionality, offering a comprehensive solution. This proposal aims to enhance the platform's quality through AI, making it suitable for a wide range of business applications.

考慮到大型語言模型（LLM）風險，設計了一個包含審核模塊的系統，以防止資料外洩，並限制僅能使用於Teams、Zoom和WhatsApp 等渠道。該應用程式不僅限於客戶使用，還擴展到人力資源、物業管理和保險等內部功能。它支援粵語，具有語音轉文字功能，提供全面的解決方案。該方案旨在透過人工智能提高平台的質量，使其適用於各種商業應用。

Smart Business (Emerging Technologies) Bronze Award
商業方案(新興技術)銅獎

OneAsia Network Limited
亞洲脈絡有限公司

www.oneas1a.com

OAsis Supercomputing Portal

OAsis Supercomputing Portal:
All-in-one AIOps Portal for GenAI and GPU Management

OAsis Supercomputing Portal is proprietary AI operations and orchestration platform developed by OneAsia for efficient GPU resource management. It was first deployed in 2022 to cater to high-performance computing needs across industry and academia. It now supports mainstream AI and high-performance computing methodologies, and helps clients to fully utilize its infrastructure for GenAI research and applications.

Unique Integration of SLURM and Kubernetes Clusters
OAsis supports 3 types of resources orchestration, namely Slurm Cluster, Kubernetes Cluster, and Bare-metal Farm, simultaneously in one data centre. This is OAsis' unique competitive edge and differentiation, serving researchers and engineers from different backgrounds for different purposes.

OAsis Insights: Self-developed Intelligent Module for Real-time Monitoring
OAsis Insights provides a true holistic view of the portal, monitors a wide range of metrics, including environmental data, GPU, server, storage, network, scheduler, service, user workload pattern, and even user custom application-level metrics (APM).

App Store for Launching Standalone/ SaaS-based GPU Apps
GPU accelerated Apps often require configuration. With preset templates, OAsis helps users launch GPU apps in a click. OAsis also provides API access and open-source software library for freely use of various modules.

Holistic Server, Network, and Storage Operation All-in-one
OAsis incorporates server, network, storage, and operation functionalities into a unified platform, featuring high-speed network infrastructure, advanced storage options, and high-performance parallel file system.

Flexible billing: Granular Pricing Control Per Cluster/Account
OAsis supports automating or manually issuing invoices, debit and credit notes, supports group payments, and can split billing.

More Features
OAsis Portal offers on-demand resource allocation with two portal views (admin/user). It supports multi-brand GPU management, dynamic storage allocation, and provides container registry as a service.

OAsis 超算平台

OAsis超算平台：
用於生成式AI及GPU管理的一站式AIOps平台

OAsis是OneAsia開發的超算及AI營運平台，自2022年起投入使用，專為高效管理GPU資源設計，支援主流AI及超算架構，幫助客戶充分利用數字基建進行生成式AI研究與應用。

SLURM與Kubernetes的獨特整合
OAsis同時支援Slurm、Kubernetes及Bare-metal裸機伺服器架構，能靈活應對不同背景研究人員和工程師的需求。

OAsis Insights：自主研發的智能模組，實時監控
OAsis Insights提供全面視圖，監控環境數據、GPU、伺服器、儲存、網絡、調度、服務及用戶工作負載，及自定義應用級別指標（APM）。

應用商店：快速啟動GPU應用
提供預設範本，一鍵啟動GPU應用，並提供API和開源軟件庫，供用戶靈活使用。

全方位伺服器、網絡及儲存營運集成
將伺服器、網絡、儲存及營運功能整合於一個平台，並支援高速網絡、先進儲存方案及並行文件系統。

靈活計費：精確的價格控制
支持自動或手動開立發票，並支援賬單分拆。

更多功能
提供按需資源分配、具有管理員和用戶視圖，支持多品牌GPU管理、動態儲存配置，並提供container-registry-as-a-service。

Comments from Judging Panel
評審委員會評語

Only applicable in a supercomputing center, this solution leverages open-source technologies and is compatible with various hardware setups. Additionally, it features a management portal capable of integrating with different brands to facilitate the management of their supercomputing operations.

此解決方案僅適用於超級運算中心，採用開源技術，並與各種硬件設置兼容。此外，它還具有一個能夠與不同品牌整合的管理門戶，以方便管理其超級運算營運。

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

InnoLab Limited https://www.tryeat.la

Try.Eat!
| 人氣網紅配對平台

Try.Eat! - Influencer Matching Platform

Try.Eat! is an incredibly easy-to-use influencer matching platform, empowering brands and merchants to seamlessly collaborate with verified influencers through SaaS service. On Try.Eat!, merchants can easily match with the suitable influencers faster, achieve marketing goals more effortlessly, and benefit from flexible pricing models. Best of all, it all starts for free. By harnessing the power of technology, Try.Eat! makes influencer marketing astonishingly simple and smooth, ensuring brands and merchants achieve remarkable marketing success.

Since its launch in 2021, Try.Eat! has experienced rapid growth, featuring over 8,000 verified high-quality influencers and KOLs across major social media platforms like Instagram, Facebook, YouTube, OpenRice, Dianping, and Xiaohongshu. Trusted by over 500 F&B merchants and brands, our esteemed clients include Grand Emperor Hotel, UNY Hong Kong, APITA, Jurlique, SuperFood Lab, Cha San Qian, Green Common, Ruby Tuesday, Outback Steak House, Brick Lane, HABITŪ, A Nice Gift, and Mammy Pancake.

Try.Eat!人氣網紅配對平台

Try.Eat! 是一個極易使用的網紅行銷配對平台，讓客戶能夠通過自助發佈活動輕鬆地與經過驗證的網紅合作，讓商戶更彈性的收費模式下，更快速找到合適網紅，更輕鬆達到行銷目標，而且一切從免費開始。我們利用科技讓網紅行銷變得極其簡單無阻，幫助品牌和商戶在業務中取得成功。

自2021年尾推出以來，Try.Eat!迅速成長，擁有超過8,000名經過驗證的高質量網紅和KOL，覆蓋Instagram、Facebook、YouTube、OpenRice，大眾點評和小紅書等主要社交媒體平台，並受到超過500家餐飲商戶與品牌的信賴，客戶包括：英皇娛樂酒店、UNYHong Kong、APITA、Jurlique、SuperFoodLab、吃茶三千、Green Common、Rube Tuesday、Outback Steak House、Brick Lane、HABITU、賞茶和媽咪雞蛋仔等。

Comments from Judging Panel
評審委員會評語

This platform offers a novel and effective matching service, particularly beneficial for SMEs seeking suitable Key Opinion Leaders (KOLs). It introduces a fresh and innovative concept to Hong Kong's market, with no direct competitors visible locally, indicating significant potential. The platform facilitates the matching of F&B establishments and key events with KOLs, aiding SMEs in efficiently embracing KOL marketing channels. Currently, the platform has engaged with 8,000 KOLs, served 400 customers, and facilitated over 1800 events.

這個平台提供了一項新穎而有效的配對服務，特別適合尋找合適的關鍵意見領袖（KOL）的中小企業。它為香港市場引入了一個全新且創新的概念，目前在香港並未見到直接競爭對手，顯示出其巨大潛力。該平台促進了餐飲業和重要活動與KOL的配對，幫助中小企業高效地採用KOL營銷渠道。目前，該平台已與8,000位KOL合作，服務了400位客戶，並促成了超過1800個活動。

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

OmniWe Limited omniwe.com

Omni-Xperience: Redefining the Retail and Dining Experience

OmniWe is an innovative, all-in-one retail and dining system that helps businesses integrate their shopping and dining services. The OmniWe platform connects online and offline channels, seamlessly integrating retail stores and restaurants to deliver a unified customer experience. Customers can effortlessly shop, order, and enjoy a truly immersive shopping and dining journey through OmniWe's comprehensive system.

At the core of the OmniWe system is a powerful, AI-driven data analytics platform. By seamlessly connecting all customer touchpoints, the platform leverages advanced algorithms to analyze customer preferences, purchasing patterns, and behavior data. This allows OmniWe to provide highly personalized product recommendations and an immersive consumer experience, encouraging customers to spend more time engaging with the brand.

OmniWe offers businesses a comprehensive and efficient digital transformation solution, including intelligent retail and dining POS systems, self-service platforms, mobile applications, and e-commerce websites. This not only helps optimize operational processes, but also enhances customer satisfaction and brand value.

Unlike traditional solutions, OmniWe brings cutting-edge technology to SMEs in a fast and affordable manner. By democratizing the advanced technological systems that were once only accessible to large enterprises, OmniWe enables businesses of all sizes to seamlessly integrate their retail and dining operations and experience the benefits of data-driven technology.

跨平台無縫體驗。重新定義零售與餐飲模式

OmniWe 是創新的零售餐飲一體化系統，為企業提供整合零售購物和餐飲管理系統的數碼解決方案。OmniWe 系統完美串接網店和實體門市、零售商店和餐廳，顧客可以在 OmniWe 開發的全方位系統上輕鬆購物、點餐，享受愉悅流暢的一體化購物與用餐消費體驗。

OmniWe 系統的核心是一個強大的 AI 驅動數據分析平台，能即時串聯所有顧客接觸點，然後通過演算法，分析顧客偏好、購買模式和消費行為數據，向顧客提供高度個性化的產品推薦，鼓勵他們花更多時間與品牌進行深度互動。

OmniWe 為企業提供高效多元化的全方位數碼解決方案，包括全渠道零售 POS、智慧餐飲 POS、自助服務平台、手機應用程式及電子商務網站，不但能幫助企業優化營運流程，還能提升顧客滿意度和品牌價值。

不同於傳統解決方案，OmniWe 以快捷且經濟實惠的方式將尖端科技推廣至中小企業。成功將以往只有大型企業才能使用的先進技術系統，以可負擔的價格普及至中小企業，而且能夠在幾天內完成到店安裝，讓企業能快速整合零售與餐飲業務，充分享受數據驅動技術帶來的變革性好處。

Comments from Judging Panel
評審委員會評語

This is the most innovative aspect is content generation. This application leverages AI for marketing content creation and AI-powered waiter ordering functionality to ensure efficiency. The platform is designed for use in both online and physical retail shops.

這個應用程式的最具創新性的方面是內容生成。它利用人工智能進行市場營銷內容創建，以及具備人工智能驅動的點餐功能，以確保效率。該平台設計更適用於線上和實體零售店。

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- HKBIO Hong Kong Biotechnology Organization
- HKEA Hong Kong Electronics & Technologies Association 香港電子科技商會
- HKGCC Hong Kong General Chamber of Commerce 香港總商會
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