Hong Kong ICT Awards 2019 香港資訊及通訊科技獎

Smart Living Award
智慧生活獎

Leading Organiser 籌辦機構 | 香港資訊科技商會 HKITF

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智慧生活獎

Background
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.

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 ICT awards.

There are eight categories under the Hong Kong ICT Awards 2019. There will be one Grand Award in each category, and an "Award of the Year" will be selected from the eight Grand Awards by the Grand Judging Panel.

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。

2019香港資訊及通訊科技獎設有八個類別的獎項。每個類別均設有一個大獎，而最終評審委員會會再從所有大獎中甄選出「全年大獎」。

香港資訊科技商會
HKITF

Ms Irene LEUNG

President
Hong Kong Information Technology Federation

梁淑儀 女士

香港資訊科技商會會長

On behalf of Hong Kong Information Technology Federation (HKITF), I would like to congratulate all the winners of Hong Kong ICT Awards 2019: Smart Living Award. HKITF is proud to be the leading organiser for the 12th year.

Every year we strive to inject new vitality into the campaign to promote the concept of digital lifestyle. Apart from the "Smart Home" stream which demonstrate the use of smart technologies to create smart home and living for a better lifestyle; "Smart Healthcare" which can improve personal health and well-being and encourage and make our lifestyle more healthy and eco-friendly and "Smart Lifestyle" stream which can give to an easy and comfortable indulgence of the appetites and the finer things in life, and can facilitate learning in new, innovation and interactive style.

Technology is evolving at a lightning pace. As one of the leading organisers, we are deeply impressed by the award contestants who have demonstrated how technology and lifestyle innovation seamlessly integrated into our business & social life. May we wish our award winners every success in gaining recognition at the international level in the years to come!

很榮幸能代表香港資訊科技商會祝賀2019香港資訊及通訊科技獎：智慧生活獎！今年已是香港資訊科技商會第十二次取得「智慧生活獎」的主辦權。

每年籌劃智慧生活獎，我們都本著精益求精的態度，努力為獎項注入新元素，希望更能傳遞數碼時尚生活訊息。除了鼓勵有助推廣健康、環保、醫療推廣創意有關的網站或產品而設的「智慧醫療」組別；有助發展智能技術以達至智能家居及提高生活質素而設的「智能家居」組別；以及有助提供舒適及高質素生活方式、新穎及創新的學習模式的「生活時尚」組別。

作為其中一個獎項的主辦機構，我們深深感受到資訊及通訊科技的日新月異和參賽者的無限熱誠及創意。參賽作品都能充份展現了科技「魅力」，它們百份百融入城市人的生活，與日常工作、娛樂甚至交友等環環相扣，讓時尚生活更多姿多采。

祝願各位得獎機構再創佳績，勇奪國際殊榮！

Message from Chairman of Organising Committee
籌委會主席獻辭

Mr Francis FONG
Honorary President
Hong Kong Information Technology Federation

方保僑 先生
香港資訊科技商會榮譽會長

I am honoured to be appointed as the Chairperson of the Organising Committee of the Hong Kong ICT Awards 2019: Smart Living Awards. Taking this opportunity, I must express my sincere gratitude to all the judges and assessors for the time and the invaluable comments that they have contributed to the Awards. It is not at all an easy task, having to select the winners from the many outstanding applications that we have received. I would also like to thank all members of the Organising Committee who have dedicated much effort to ensure the success of this event.

When you read through this booklet, you will be amazed by the brilliant ideas behind each creation of the winning teams. The winning products and applications not only demonstrated how people's lives can be enhanced with ICT technologies, but also reflected a high level of innovativeness and technological expertise that are all 'made in Hong Kong'. All these are critical success factors to the development of local ICT industry in the digital era.

I wish all the winners tremendous success in the years to come!

我很榮幸獲委任成為2019香港資訊及通訊科技獎：智慧生活獎籌委會主席。在此，我向一眾評審委員致謝，感謝他們獻出寶貴的時間和專業評審意見，今屆參賽機構臥虎藏龍，要為眾多傑出的參賽項目作出評審，實在不容易。藉此機會亦多謝籌委會各成員，令智慧生活獎得以順利進行。

當大家細閱這本場刊，不難發現令人驚喜的產品和應用方案。這些富創意的得獎項目不但體現了善用資訊及通訊科技能提升生活質素，更反映出本地機構的高度創意及技術水平，於數碼生活時代能抓緊新的發展機遇。

我衷心祝賀今屆得獎者繼續創高峰！

Message from Chairman of Final Judging Panel
評審委員會主席獻辭

Dr William LO, JP
Executive Chairman
SMI Holdings Group Ltd.

盧永仁 博士，JP
星美控股集團有限公司 執行主席

Congratulations to all winners of the Hong Kong ICT Awards 2019: Smart Living Award! It has been my honour to be the Chairperson of Judging panel. There has been years that I am involved in the Hong Kong ICT Awards.

Every year in the event I see the continuous exciting evolvement of new ICT ideas into our daily lives. Hong Kong, as one of the world's most energetic cities, provides a truly dynamic platform for the nurturing of ICT talents. At the same time, it is the outstanding achievements and innovations of these talented professionals that help Hong Kong maintain its invincible status.

All participants of this year's Smart Living Award have demonstrated to me their relentless commitments in the enhancement of the society's well-being by bringing efficiency and convenience to people's everyday life. I would like to express my deepest gratitude and appreciation to all the participants here, well done!

恭喜所有 2019 香港資訊及通訊科技獎：智慧生活獎的得獎者！今年非常榮幸成為評審委員會主席。

在每年的香港資訊及通訊科技獎裡，我都不斷看到一些令人振奮的新創意融入到我們日常生活當中。作為世界最有活力的城市之一，香港無疑提供了一個孕育資訊通訊科技人才的獨特平台。同時，我們優秀的科技專才也為今日的香港作出了不可多得的貢獻。今年，我深深感受到所有智慧生活獎的參賽者對造福社會、改善人民生活的承諾。在此我想對所有參賽者表達我最深切的感謝和讚賞。

Smart Living Award Final Judging Panel
智慧生活獎評審委員會

Chairman (Third on Front Row)　主席（前第三）

Dr William LO, JP
Executive Chairman
SMI Holdings Group Ltd.

盧永仁 博士，JP
星美控股集團有限公司執行主席

Panel Member (From Left on Back Row)

Dr Ken FONG
Adjunct Professor
Hong Kong Polytechnic University

方健僑 博士
香港理工大學兼任教授

Dr Allen WONG
Head of Product and Business Development
HKT Ltd.

黃一川 博士
香港電訊有限公司產品開發及業務拓展主管

Mr Fritz CHIU
Financial Controller
Data Exchange Ltd.

招亮輝 先生
Data Exchange Ltd. 財務總監

Mr Ralph SZETO
Chairman
Hong Kong Association of Interactive Marketing

司徒廣釗 先生
香港互動市務商會會長

Mr SIN Chung-kai
Owner
SCK Analytics Ltd.

單仲偕 先生
SCK Analytics Ltd. 擁有人

Mr Eric FAN
Chief Executive Officer
uDomain Web Hosting Company Ltd.

范健文 先生
通域存網有限公司行政總裁

Mr Ivan SO
Founder
Zizsoft Ltd.

蘇子賢 先生
即時軟件有限公司創辦人

Panel Member (From Left on Front Row)

Mr Anthony AU
Honorary President
Hong Kong Information Technology Federation

區煒洪 先生
香港資訊科技商會榮譽會長

Dr William YU
Chief Executive Officer
World Green Organisation

余遠騁 博士
世界綠色組織行政總裁

Mrs Patricia LAU
Deputy Commissioner for Efficiency
Efficiency Office, Innovation & Technology Bureau
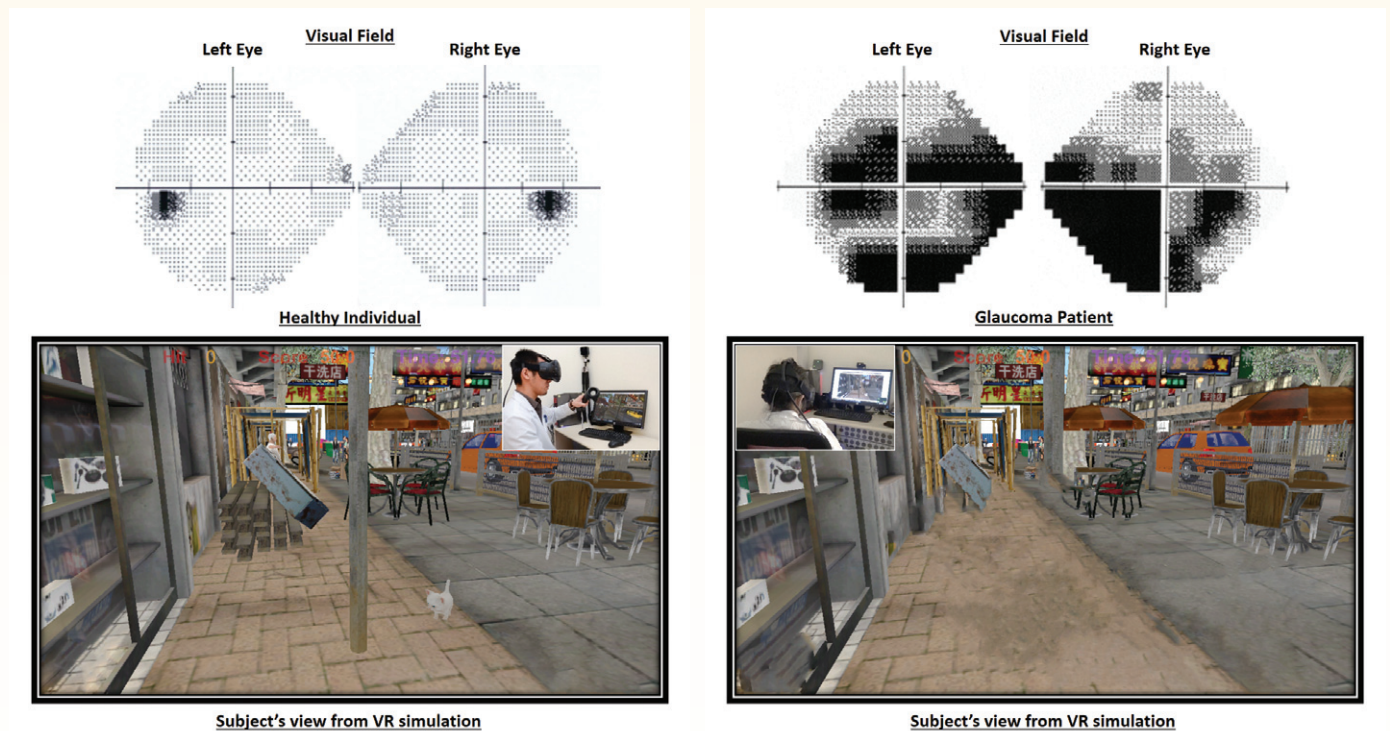
劉冼靜儀 女士
創新及科技局效率促進辦公室副效率專員

Ms Judy LEUNG

梁慧珠 女士

Smart Living Grand Award
and Smart Living (Smart Healthcare) Gold Award
智慧生活大獎
及 智慧生活（智慧醫療）金獎

ACE VR Ltd.
艾斯數碼有限公司

Subject's view from VR simulation

Subject's view from VR simulation

Evaluation of Visual Disability in a Virtual Reality Environment

以虛擬實境評估視力障礙

Clinical assessment of vision-related disability experienced by visually-impaired patients is obfuscated by the lack of instruments that can inform real-world visual performance. ACE VR Ltd. has constructed virtual reality (VR) environments in a VR headset simulating day-to-day activities to visualise and quantify visual disability. These include (1) supermarket shopping, (2) stair navigation in daytime, (3) stair navigation in nighttime, (4) city navigation in daytime, and (5) city navigation in nighttime. Its data supports VR simulations can empower clinicians to better understand a patient's perspective of what and how daily activities impart disability and connect clinical test results of vision to performance measures that are relevant to patients. The innovation of VR simulations of activities that are relevant to patients' real-world experience provides a new paradigm to measure visual disability for enhancement of clinical care, facilitating clinicians to devise appropriate treatment, support and visual aids to improve patients' quality of vision and quality of life.

艾斯數碼有限公司指出，目前尚未有任何臨床的技術，可以切實地就與病人日常生活有直接關聯的視能力進行評估。艾斯數碼有限公司產品透過虛擬實境頭戴式裝置，建立虛擬現實平台來模擬病人的日常活動，以測量和可視化病人的視力障礙程度，其中包括超市購物，模擬白天及夜間上落樓梯，以及模擬白天及夜間城市街道上行走。它們的數據支持虛擬實境模擬檢測可有效測量和監測因眼疾所造成的視力障礙，為病人的及早治療及預後提供更多元化的臨床依據避免惡化，幫助醫生制定視力復康方案，並配合更適當的治療和援助工具來改善眼疾患者的視力和生活質素。

VR Simulation Example – City Navigation

Day time   **Night time**

VR Disability Score
(to identify patients with visual disability)

Scientific Data Model
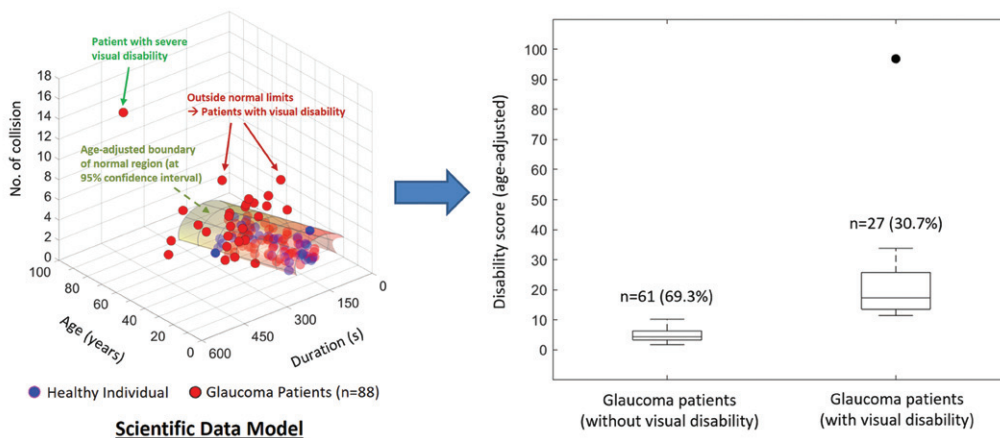
Comments from Judging Panel
評審委員會評語

This is an innovative and well-designed application leveraging virtual reality (VR) technology in the evaluation of visual disability. It gives great flexibility in the testing administration with this non-invasive VR simulations when compare to the traditional way of clinical testing for eye diseases. It improves the efficiency for eye testing thus facilitates the clinicians to adopt appropriate treatments. It can also generate a quantitative standard for visual impairment based on the data obtained from users.

It is impressive that the applicant has successfully applied multimedia elements and gamification concepts in clinical practices. It is expected to gain a greater level of acceptance and adoption in eye care industry in future, benefiting the society as a whole.

這個應用程式利用虛擬實境（VR）技術來評估視力缺損。概念創新而設計卓越，與傳統的眼部疾病臨床試驗相比，這種非侵入性VR模擬在測量方面具有很大的靈活性，能提高測試的效率，從而幫助臨床醫生採取適當的治療方法。更可以把用戶收集到的測試結果數據化，建立成為視覺障礙的測量標準，用來量化視力殘疾的程度。

這方案成功地將多媒體元素和遊戲概念應用於臨床醫學試驗中，令人印象深刻，表現出類拔萃。預計未來在眼科護理界別中獲得更高的接受度和採用率，整個社會亦從中受益。

Smart Living (Smart Healthcare) Silver Award
智慧生活（智慧醫療）銀獎

Hong Kong Applied Science and Technology Research Institute Company Ltd.
香港應用科技研究院有限公司
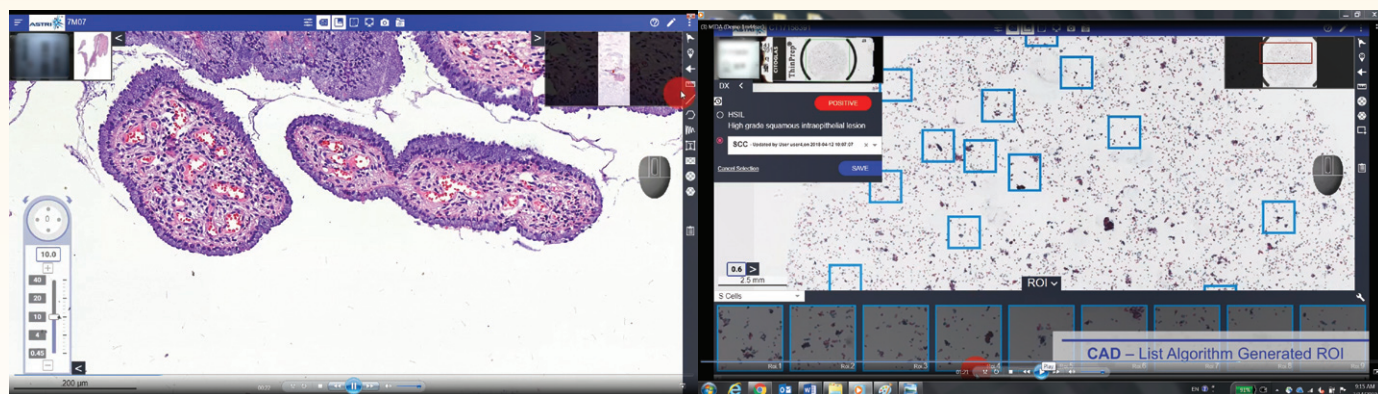
Cervical Cancer Screening Management System

子宮頸癌篩查管理系統

The "Cervical Cancer Screening Management System" (CCSMS) is a scalable computer-aided diagnostic (CAD) platform. It supports multiple scanned image format, remote diagnosis, browsing and editing, and AI algorithm empowerment. With the CCSMS application, user can process and view medical images from different vendors and image formats. Medical personnel can perform remote diagnosis anywhere, and they can exchange diagnostic opinions. The platform supports medical image viewing, magnification control, regional measurement, colour adjustment and data labelling. AI algorithm application ensures no disruption in viewing, image full scanning, and fast output in medical diagnosis. CCSMS is a convenient, effective and accurate medical image-assisted diagnostics platform.

子宮頸癌篩查管理系統（CCSMS）是一個可擴展的計算機輔助診斷（CAD）平台，它支持多種掃描圖像格式，遠程診斷，瀏覽編輯及AI算法賦能。通過CCSMS，用戶可處理和檢測來自不同廠商，不同格式的醫療圖像；醫護人員可在任何地方進行遠程檢視診斷，並與其他醫生交互診療意見；平台支持圖像快速瀏覽，大小縮放，區域測量，顏色調整和數據標籤等多種功能；AI算法賦能，確保無間斷檢測，圖像全掃描，快速輸出可靠的診斷建議。CCSMS是一個便捷，高效，精準的醫療圖像輔助診斷平台。

Comments from Judging Panel
評審委員會評語

The system is an effective platform customised for cervical cancer screening. It can detect, diagnose and analyse possible cancerous cells automatically with high sensitivity level. It assists healthcare professionals to make objective diagnosis and decisions for appropriate treatments. Besides minimising labour-intensive tasks and lowering the cost of equipment investment in hospitals or laboratories. It also brings huge benefits to patients by shortening the screening life cycle, hence, providing a higher chance of curing the disease at an earlier stage.

This system is believed to have significant value towards and serve as a great assistant to the healthcare service industry.

這是一個非常有效的子宮頸癌篩查檢測系統，能夠偵測、診斷和分析圖像中可疑的癌細胞，其靈敏度亦相當高，有助醫護專業人員作出客觀的診斷和安排適當的治療。此系統除了能夠減省處理篩查過程中投入的人力，降低投資篩查設備添置的成本外，亦能縮短篩查診斷週期，讓病人在更早階段開始接受治療，提高康復機會。

相信此系統對醫療服務行業有著重要的價值，能帶來極好的輔助。

Smart Living (Smart Healthcare) Bronze Award
智慧生活（智慧醫療）銅獎

Visiona MedTech International Ltd.
瞳訊醫療國際有限公司

VisionaDR - Intelligent Diabetic Retinopathy Screening Platform

VisionaDR™, an AI-driven software for analysing retinal images, can detect symptoms of diabetic retinopathy (DR) within 2 seconds. VisionaDR™ has been independently validated by a Hong Kong's famous university with accuracy up to 96.8%. With its safety, reliability and convenience, VisionaDR™ enables healthcare service providers to offer instant DR screening.

瞳訊糖尿眼智能分析平台

VisionaDR™糖尿眼智能分析平台，由瞳訊醫療運用人工智能技術自主研發，只需2秒，即能分析出眼底影像中是否有「糖尿眼」病變，並依據國際眼科委員會（ICO）標準，分級嚴重程度並提供跟進建議。經本港著名大學視光學院作獨立第三方評核，準成度高達96.8%。VisionaDR™安全、可靠、便捷，賦能健康服務機構提供即時的糖尿眼篩查服務。

Comments from Judging Panel
評審委員會評語

Integrated with AI algorithms, big data analysis and deep learning capabilities, VisionaDR™ is a system for retinal image investigation to detect diabetic retinopathy (DR). It serves as an efficient and safe assistive tool of a high sensitivity rate for DR preventive care. Its easy-to-use interface allows non-professional service providers like community/health check centers or optical stores to perform DR checking to pre-diabetic/diabetic patients and high risk group of people, which can release the workload pressure of the public health care system.

With its unique positioning and attainment of third party validation, it is believed that the platform will enjoy high rate of adoption and deployment in future.

結合人工智能算法、大數據分析和深度學習功能，VisionaDR™能夠識別眼底照片中的糖尿眼病徵。系統不單高效和安全，而且具有極精準的靈敏度，有效提升糖尿眼的預防性醫療。其使用界面十分簡易，就算是非專業的服務提供商如社區/健康檢查中心或眼鏡店也能為糖尿病前期/患者或高危人士進行糖尿眼篩查，絕對有幫紓緩公共醫療系統的壓力。

憑藉其獨特的定位和第三方的檢測驗證，相信平台將會得到市場高度的認可和採用。

Smart Living (Smart Healthcare) Certificate of Merit
智慧生活（智慧醫療）優異證書

The Hong Kong Federation of Youth Groups / Zensis Ltd.
香港青年協會 / 昇科有限公司

Open Up of Jockey Club Online Youth Emotional Support

"Open Up" (exclusive for the Jockey Club Online Youth Emotional Support) is a cloud-based online text platform created to provide free, and 24-hour online counselling service for youngsters with emotional issues.

"Open Up" is well designed to respond to the change of communication behaviour among youngsters. The platform incorporates text communication from multiple channels including Facebook Messenger, WeChat, SMS/MMS and the official web portal. The seamless integration with such well-known messaging platforms provides a convenient way for youngsters to reach out the service on their preferred messaging channels at anytime and anywhere.

The intelligent case allocation mechanism, and the real-time detection of suicide risk not just brings the capabilities to priorities those in crisis risk, but also facilitates the provision of timely intervention. Meanwhile, the innovative online-to-offline referral management functions provide a comprehensive follow-up assistance to those in need, and also improve the utilisation of conventional social service.

"Open Up" has been planned on leveraging big data and artificial intelligence technology, which enhances the levels of efficiency and effectiveness.

Open 噏－賽馬會青少年情緒健康網上支援平台

"Open 噏"（賽馬會青少年情緒健康網上支援平台）是利用雲端技術創建的跨媒體即時通信平台，並以文字短信形式為青少年提供24小時情緒支援及防止自殺服務。

"Open 噏"整合了 Facebook Messenger、微信、SMS/MMS 等多個即時通信平台。只需使用慣常的即時通信軟件，便能快捷地得到支援。

"Open 噏"的智能分配個案技術、實時自殺風險偵察等功能，使高危個案能得到及時處理，防止悲劇發生。而嶄新的線上線下轉介管理功能，不但為有需要長期支援的人提供協助，還提高了現有社會服務的使用率，引領出新的社會服務模式。

"Open 噏"已計劃利用大數據和人工智能等技術，持續提升服務成效。

Smart Living (Smart Home) Silver Award
智慧生活（智能家居）銀獎

Tronico Technology Company Ltd.
創力高科技有限公司

Control Your Home With Only One Touch

www.mykuju.com

Transformative Wireless IOT System for Smart Buildings

靈活多變的智能樓宇方案

KUJU System by Tronico is providing a complete wireless solution for different segments which is easy implement, user orientated, multi applications on single platform. Its system is ready and happy to cooperate with different specialists in order to provide total system solution with professionalism.

KUJU System works under the multi connectivity system architecture that can easily work with Z-wave based, Wifi based, IP based, Cloud based & Traditional wired devices. The beauty of its system architecture makes the integration so easy, direct & reliable. Thus, it can standardise a typical system solution for specific segment, like residential, commercial office, hotel, serviced apartment, school, elderly centre, etc.

KUJU system is now able to interoperate with Smart Door Lock, Video Door Phone, Electric Curtains, IP based Television, Smart Film, IPcam, Voice Recognition System, Property Management System that can transform to form the solution for different smart building projects.

KUJU 無線智能樓宇系統從用戶出發，利用無線技術，完善通訊架構，令系統能簡易安裝下達至多功能的靈活智能樓宇系統。他們成功利用智能家居系統的基礎，再結合智能門鎖，可視對講，電機窗簾，冷氣系統，語音識別，升級為多功能的智能樓宇系統。KUJU 能快速地按項目需要演變出針對不同市場的智能方案，如智能屋苑，酒店，課室，寫字樓，老人院舍等等。成功把智能家居核心系統技術帶到不同場所應用，協助用戶達至生活便捷，節能環保，老人關愛，資訊教學等效益。

Comments from Judging Panel
評審委員會評語

The system demonstrates the strong integration in software and hardware with local development and manufacturing. Role as an Application Programming Interface (API) aggregator, the system is compatible to most of the IoT devices in the market. It provides multi-interface for the users to manage the system on a single platform and allows the users to operate smart home devices' functions comprehensively. With this flexibility, users can install suitable and personalized devices according to their preferences.

This solution can be applied to various environments to create smart home and living for a better lifestyle.

這個系統充分展示本地研發軟件和硬件製造的強大集成。通過匯集、整合不同的應用編程介面（API）進行運作，並且能兼容市場上大部分的物聯網裝置。系統設有多個介面選擇，不同介面均可在同一平台上操作，用家能夠更全面地使用智能家居裝置的功能。亦可以靈活地根據自己的喜好安裝更合適的個人化裝置。其應用範圍廣泛，有利改善生活方式，創造更佳的智能家居環境。

Smart Living (Smart Home) Bronze Award
智慧生活（智能家居）銅獎

PCCW Solutions Ltd.
電訊盈科企業方案有限公司

Infinitum^{TM} Visum (Smart Mirror)

Infinitum™ Visum is an Internet connected mirror with an interactive, high-definition touch screen, pre-loaded with a suite of innovative applications for personal convenience, entertainment and improved productivity. It enables enterprises to enhance customer experience, transforming the way people live, work and play. Customised Infinitum™ Visum versions with pre-defined packages of industry-specific applications are available for property developers, hospitality providers and retailers. As part of the Infinitum™ solutions suite from PCCW Solutions, the multi-functional Visum system supports connectivity to IoT smart devices, customised configuration and user experience optimisation to provide back-end data analytics, reporting and other services to address specific needs.

Infinitum^{TM} Visum（智能鏡子）

Infinitum™ Visum 為連接互聯網的智能鏡子，結合互動高清觸控式屏幕及預載一系列提高生活便利、娛樂性及生產力的應用程式。有助企業提升客戶體驗，推動人們生活、工作及玩樂方式的轉型。Infinitum™ Visum 推出針對不同行業的服務組合，按行業預載相關應用程式，適用於物業發展商、酒店及零售店。Infinitum™ 為電訊盈科企業方案的多元化應用方案，Visum 的多功能系統支援連接物聯網智能裝置、定製配置及用戶體驗優化，並提供後端數據分析、報告及其他服務，滿足不同的需求。

Comments from Judging Panel
評審委員會評語

Infinitum™ Visum is built as an open IoT platform which is easily connected to external systems, wearable and smart devices through built-in Wi-Fi and Bluetooth connectivity. It enables users to synchronise information on a common platform and manage data on cloud simultaneously. Users can enjoy comfortable and intelligent home-automation experience.

Infinitum™ Visum 是一個開放的物聯網平台，可通過內置Wi-Fi和藍牙設備輕鬆連接到外部系統、穿戴式或其他智能裝置。用家能夠在公共平台上同步資料，同時管理雲端上的數據，從而享受舒適和智能的家居自動化體驗。

Smart Living (Smart Lifestyle) Gold Award
智慧生活（生活時尚）金獎

GRWTH Ltd.

"GRWTH Pay" - Multi-gateway Payment Solution

"GRWTH Pay - Multi-gateway Payment Solution" is the first in-app multi-gateway and reconciliation solution in Hong Kong Education. Combination of EduTech and FinTech provides a convenient way and cashless payment experience in school context, constructs an all-rounded learning platform with e-payment, balance checking, student e-portfolio, home-school communication and administration work management.

Current systems in the market were launched decade ago, while most of them are solely compatible with singular payment gateway. In the meantime, global arousal and development of smart living has led GRWTH Ltd. to reflect the innovation significance of e-payment system in Hong Kong education. "GRWTH Pay" offers variety of choice of payment methods to parents, included by limited to credits cards, prepaid cards and e-wallets. In the future, parents benefit from real-time transaction without hassles from prepaid amount in advance.

"GRWTH Pay" - 多元化收費及對賬系統

「GRWTH Pay - 多元化收費及對賬系統」是為香港教育界首個多元化 in-app 電子支付系統，成功將教育科技（EduTech）與金融科技（FinTech）結合，為學界帶來全新的開放式無現金支付體驗。透過 GTRWTH App 將電子支付、帳戶對賬、學生檔案、家校溝通以及學校行政等功能整合至同一個平台。

教育界現有的電子支付系統已經推出接近十年，一直由學校主導，全體家長學習使用單一支付途徑。惟隨著智慧城市成為世界各地及香港的重要發展方針，GRWTH Pay 為學界提供多元化的支付渠道，支援信用卡及電子錢包，家長的用戶體驗與電子貨幣世代接軌，從此無需增值、實時交易。

Comments from Judging Panel
評審委員會評語

This one-stop payment platform brings a fast and convenient payment experience to schools and parents. Parents could make real-time transactions in app with a variety of payment methods, and look for available service or courses provided by schools or other service providers. While its reconciliation center has addressed the pain points of teachers/schools. It helps minimise the manpower and human errors in handling duplicated and tedious payment procedures, and save time for teachers/staff to manage other teaching/administrative duties instead.

This cashless system is believed to be widely accepted by the majority of parents and schools in Hong Kong and expected to increase its market share in the forthcoming future.

這個一站式繳費平台能為學校和家長帶來快捷方便的支付體驗。家長可以使用不同付款渠道進行實時交易，並查找學校或服務供應商所提供的合適服務或課程。而內設的對賬中心能解決教師/學校所面對的煩惱，減少在處理大量及繁瑣的交易程序時所消耗的人力物力、減低人為錯誤，並為教職員節省更多時間來處理其他的教學及行政工作。

相信這種無現金支付系統將受到廣大的香港家長和學校歡迎，展望在不久將來可增加其市場佔有率。

Smart Living (Smart Lifestyle) Silver Award
智慧生活（生活時尚）銀獎

Infinity Cube Ltd.
無限立方有限公司
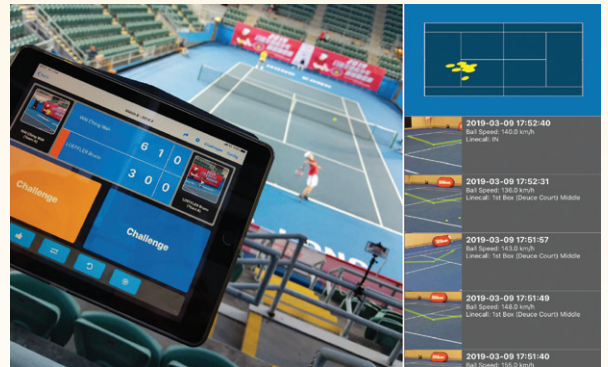
eyes³ for Tennis - AI Driven Mobile Sports Analytics System

Infinity Cube is an innovator in sports technology based in Hong Kong. Its flagship product eyes³ for Tennis helps tournament organisers, academies, sports clubs and everyday tennis players raise the level of game play and to enhance spectator interactions.

eyes³ is an AI based mobile Electronic Line Call (ELC) solution with an unprecedented price-performance that can be used by tournament organisers. Before eyes³, organisers have limited access to an affordable and objective solution and often result in on-court tensions and conflicts between umpires and players. Now, organisers can increase line calls accuracies and promote fair play among players ANYWHERE ANYTIME using their mobile devices.

eyes³ is also a Performance Improvement and Interaction tool for coaches, players and spectators to share live performance statistics, thereby increasing participation and spectators' enjoyment of the sport.

eyes³ for Tennis - 人工智能體育數據分析系統

Infinity Cube 是以香港為研發基地的體育科技創新者。使用先進的計算機視覺和人工智能，提供電子裁判的解決方案，Infinity Cube 幫助球賽舉辦團體，體育學院和日常網球運動員提高賽事和技術水平並增加與觀眾的互動。

eyes³ 運用便攜式電話提供性價比高的電子裁判（ELC），使這項從前非世界專業球賽組織者可負擔的技術普及化。現在，組織者可以使用他們的移動設備隨時隨地提高賽事的裁判準確性和公平性。

eyes³ 亦可提供技術和賽事統計數據，用以提高球員技術和觀眾的參與度。

Comments from Judging Panel
評審委員會評語

This is an app with professional-grade video assistance leveraging ball tracking AI technology and unique customisation features, which allows both professional and amateur players to improve their performance through retrieving data and videos of their games and enjoy fair game plays. It has made traditional complex and sophisticated set up to be affordable, easily to use and functional through the use of everyday smartphones.

It has high potential to further expand its business to other official matches, as well as extend its usage to different kinds of sport.

這個應用程式擁有專業級視頻輔助功能配合人工智能球追蹤技術和獨特定製功能，專業或業餘網球員可利用影像記錄及數據來改善球技；通過即時的錄像分析，協助球員在球賽中獲得公平的裁決。有別於傳統組裝複雜和費用昂貴的追蹤裝置，只需配合日常慣用的智能手機便可發揮功能，不但容易使用而且合乎經濟效益。

此應用程式具有優越的發展潛力，期望能被更多官方比賽採用，並將其用途擴展到不同的運動項目。

Smart Living (Smart Lifestyle) Bronze Award
智慧生活（生活時尚）銅獎

Farm66 Investment Ltd.
綠芝園投資有限公司

Cloud-based Farming Parameters Monitoring System

Farm66 has developed an IoT solution "Cloud-based Farming Parameters Monitoring System" dedicated for indoor farms. Its solution consists of both water and environmental sensors for collecting data related to the ambient environment and water quality. It also comprises actuators for adjusting light schedules and water quality parameters. With the data and the controllers, it could ensure the plants are grown under a controlled environment.

Moreover, by conducting correlation analysis and selecting appropriate features for machine learning, it could figure out the best growing environment for each plant. Hence, by correctly and timely adjust the parameters for the environment and water throughout the plant growth, it could maximise the crop yield and optimise the crop quality.

Comments from Judging Panel
評審委員會評語

Indoor aquaponics farming eco-system is a self-contained, sustainable and contamination-free solution of urban agricultural development. While the monitoring system is practical and well designed in terms of the software and hardware. Integrated with energy-efficient spectrum LED wavelength farming technology, Industrial Internet of Things (IIoT), cloud computing and more, it can maximise the crop yield and optimise the crop quality, developing an economical and efficient plan for local-farming.

This farming solution has good capacity to develop to a scalable business and will be the future technology trend. It is recommended to put more promotion efforts to attract more users.

雲端農業參數監測系統

Farm66 研發了一個專為室內種植工廠而設的物聯網解決方案「雲端農業參數監測系統」，利用傳感器在種植系統附近收集與環境及水質相關的數據。同時它亦設置控制器調節光照時間及水質營養參數，以確保植物生長在全環控的環境。

另外，透過進行數據分析及機器學習，系統能找出每種植物的最佳生長環境。於是在各種植物的生長過程中，能準確地於不同時段營造對應最理想的環境，從而優化整體蔬菜的產量及質量。

室內水耕農業生態系統是一個獨立、可持續和無污染的城市農業發展解決方案，配合這個監控系統則令室內水耕更完善。系統的軟件和硬件設計精心完善且非常實用，結合多項科技如：節能 LED 光波種植技術、工業物聯網（IIoT）、雲端計算等，能使農作物的產量大大提高，其品質亦得以提升，為本地提供一個高經濟效益和高效能的農業計劃。

這個方案有很大的市場發展空間，業務規模擴展可望更上一層樓，成為未來的技術趨勢。建議加大推廣力度，吸引更多用戶。

Smart Living (Smart Lifestyle) Certificate of Merit
智慧生活（生活時尚）優異證書

R-Guardian Ltd.
守護者科技有限公司

Smart Solution for Personal Belongings

R-Guardian is focusing on developing and manufacturing IoT based technology for consumer products. Its current business is on B2B basis and has been developing an initial cooperation and production with various luggage brands worldwide. It is a true Bay Area startup who has development on both tech and sales in Hong Kong plus a tech hub for integrating our hardware and software into luggage in Nanshan, Shenzhen. Its ultimate goal is to build and develop an IoT platform for mobile products and wearables.

Luggage with our integrated solution has 5 major fucntions
• Removable power source 5200mAh
• BLE anti lost
• Global tracking system (GPRS+WiFi geolocation)
• Built-in digital weight scale
• Bluetooth operated TSA lock

Its technical barrier includes 13 patents (6x invention, 5x utility & 2x design)

個人隨身物品智能方案

守護者科技由2015年成立至今，一直專注研發及生產含物聯網科技基礎的硬件軟件。現時公司以B2B的業務為主，已經和多個國際知名的行李箱品牌合作。科研及營銷始於香港，再配合深圳自家的技術工作室，來拓展他們的業務生態圈。最終願景為構建未來隨身物品的移動物聯網平台。

綜合智能方案有五個主要功能：
• 可拆除式移動電源5200mAh
• 藍芽防丟
• 全球定位系統（GPRS+WiFi geolocation）
• 內置藍芽操作電子
• 藍芽操作TSA鎖

包含13個專利保護
6x 發明
5x 實用新型
2x 設計

Introduction of Leading Organiser
籌辦機構簡介

The Hong Kong Information Technology Federation (HKITF) was founded in 1980 as a non-profit, nonpolitical trade association to provide a forum in which the IT-related business in Hong Kong can work together for the benefit of the industry and to maintain a high level of business practice amongst the members. HKITF acts as the bridge for international IT companies looking for local partners and works with trade commissions to host trade promotion events. It supports and sponsors various IT sectors to develop focus groups; promotes local IT business through various activities; and also helps keeping members abreast of local IT developments and business opportunities. In the public sector, HKITF works closely with government to promote the development of the local IT industry. HKITF represents the industry on many government committees for policy and regulatory issues. For more information, please visit **www.hkitf.org.hk**.

香港資訊科技商會於一九八零年成立，是一所非牟利及非政治的商會。發展至今，香港資訊科技商會已是一具影響力及於業內廣受重視的團體。本會的宗旨是為香港的訊息及通訊科技界業內人士及企業提供合作及溝通的管道，共同改善營商環境及提高行業整體的服務素質。一直以來，香港資訊科技商會積極推動本地資訊科技行業的發展，透過舉辦不同類型的活動，為業內人士提供交流營商心得及擴展聯繫網絡的機會，讓會員們可以得到較快的資訊發展及商機。在公眾項目方面，商會委員代表業界擔任多個政府委員會和專責小組等之成員，與各有關的政府部門緊密合作，積極向政府提交業界意見書。有關香港資訊科技商會的詳情，請瀏覽 **www.hkitf.org.hk**。

Enquiry
查詢

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