HONG KONG
ICT AWARDS
2018 香港資訊及
通訊科技獎

智慧生活獎
Smart Living Award

Organiser
籌辦機構

香港資訊科技商會
HKITF

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Smart Living Award
智慧生活獎

HONG KONG ICT AWARDS 2018 香港資訊及通訊科技獎

Background
背景

The Hong Kong ICT 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 2018. 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。

2018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」。

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 2018: Smart Living Award. HKITF is proud to be the leading organizer for the 11th 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 organizers, 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2018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十一次取得「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致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 Organizing 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 honored to be appointed as the Chairperson of the Organizing Committee of the Hong Kong ICT Awards 2018: 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 Organizing 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香港資訊及通訊科技獎2018：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，今屆參賽機構卧虎藏龍，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
Chairman
Kidsland International Holdings Ltd.

盧永仁 博士，JP
凱知樂 副主席

Congratulations to all winners of the Hong Kong ICT Awards 2018: 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2018 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)

Dr William LO, JP
Vice Chairman
Kidsland International Holdings Ltd.

主席 (前第三)

盧永仁博士, JP
凱知樂副主席

Panel Member (From Left on Back Row)

Mr Fritz CHIU
Financial Controller
Data Exchange Ltd

招亮輝先生
Data Exchange Ltd 財務總監

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 Ken FONG
Honorary Chairman (Life)
Hong Kong Wireless Technology Industry Association

方健僑博士
香港無線科技商會永遠名譽主席

Mr C.K. SIN
Owner
SCK Analytics Limited

單仲偕先生
SCK Analytics Limited擁有人

Mr Eric FAN
Head of Technical Department
uDomain Web Hosting Company Limited

范健文先生
通域存網有限公司科技發展部總監

Mr Rico CHAN
Managing Director of Oath Hong Kong, India and SEA
Yahoo! Hong Kong Ltd.

陳啟滔先生
雅虎香港有限公司Oath 香港及東南亞印度地區董事總經理

Panel Member (From Left on Front Row)

Dr Allen WONG
Head of Product and Business Development
HKT Limited

黃一川博士
香港電訊有限公司產品開發及業務拓展主管

Ms Judy LEUNG
Vice President
Hong Kong Information Technology Federation

梁慧珠女士
香港資訊科技商會副會長

Mrs Patricia LAU
Efficiency Unit, HKSAR Government

劉冼靜儀女士
香港特別行政區效率促進組副專員

Dr William YU
Chief Executive Officer
World Green Organisation

余遠騁博士
世界綠色組織行政總裁

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

Belun Technology Company Limited
倍靈科技有限公司

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IOT
Medi-Sense
BIG DATA
Ai
Medi-Bot

Belun™ Ring

Belun™ Ring is a medical-grade wearable platform utilising ICT technologies, bio-sensing, signal processing techniques and deep learning algorithm to pre-screen potential obstructive sleep apnea (OSA) sufferers conveniently at home and provide sleep health including mental stress in relationship with daytime activities.

Combining the innovative and patented ring design and optical design, Belun™ Ring is light-weighted, comfortable to be worn continuously and nonintrusively during sleep. With the upload of the accurate and high sensitivity data through network, respiratory disorders during sleep will be identified by Belun™'s cloud-based proprietary artificial intelligence (AI) system. All physiological data, analysis and reports can be viewed by authentic people from clinics, health-check centres, respiratory machine vendors and elderly centres which provides additional insights to physicians.

Belun™ Ring also enables user to evaluate how his/her daytime activities affect his/her sleep quality and to review his/her own sleep health holistically and scientifically which is unprecedented in the marketplace.

倍靈指環

倍靈指環是醫療級的可穿戴平台，運用資訊科技於生物感測、生理信號處理和深度學習算法，方便在家篩查潛在的睡眠窒息症（OSA），並提供白天活動與睡眠健康的關係如精神壓力。

結合專利保護的創新指環及光學設計，輕巧的倍靈指環能帶來無干擾及舒適的睡眠監測。倍靈指環記錄準確及高靈敏度的睡眠數據，經網絡上載至倍靈的雲端人工智能去確認呼吸障礙事件。所有生理數據、分析及報告，可供診所、體檢中心、呼吸儀器供應商及長者中心的授權人仕查閱。

倍靈指環提供市場上前所未有的功能，讓用戶能夠評估日常活動如何影響自身的睡眠質量，從整體和科學角度審視睡眠健康。

Belun™ Ring
倍靈指環

Comments from Judging Panel
評審委員會評語

This wearable ring is innovative and well designed with medical grade features for the users and obstructive sleep apnea (OSA) patients. Well integrated solutions with ICT, cloud-based artificial intelligence (AI) and with user friendly interface, it is able to speed up the assessment time and treatment process at a low cost comparing with traditional medical checking system. It can help to promote smart and heathy living to the general public.

The applicant has definitely put a lot of efforts on developing this wearable ring.

這個指環為用戶和睡眠窒息症患者提供嶄新設計及可穿戴式的醫療級裝置。該指環結合了資訊科技、雲端人工智能系統和方便易用的界面，與傳統醫療檢查系統相比成本低，亦加快評估時間和治療過程，絕對有助向大眾推廣智慧健康生活。

參賽者為這個指環的研發，肯定下了不少功夫。

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

Imsight Medical Technology Company Ltd.
視見醫療科技有限公司

LungSight

Lung cancer has been the leading cause of cancer death worldwide. We propose a novel framework with 3D convolutional networks for automated detection of pulmonary nodules from low-dose CT scans, which is a challenging yet crucial task for lung cancer's early diagnosis and treatment. Our proposed framework consists of two stages:1) candidate screening, and 2) false positive reduction. The detection process takes less than a minute with over 90% sensitivity while radiologists can spend between 5 and 10 minutes for the same task. LungSight can support the radiologists, reduce their workload, maintain low misdiagnosis rates and diagnosis costs, eventually saving patients' lives.

肺部CT圖像人工智能輔助診斷軟件

肺癌是全球癌症死亡率最高的疾病之一。我們提出基於深度學習技術的自動化解決方案，利用三維卷積神經網路，篩查肺部小結節，為肺部的早期診斷和治療提供可靠依據。我們提出的解決方案包含兩部分內容：1）可疑位置查找；2）假陽性排除。肺部CT圖像人工智能輔助診斷軟件的檢測過程不到一分鐘，靈敏度超過90％，但放射科醫生需要5到10分鐘完成相同的任務。它可以幫助放射科醫生，減輕他們的工作量，保持低誤診率和診斷成本，最終挽救患者的生命。

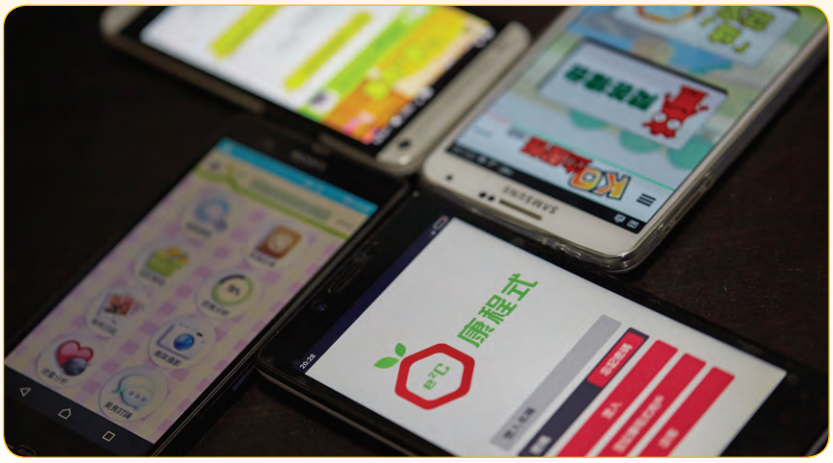
Comments from Judging Panel
評審委員會評語

This is an effective system for early lung cancer detection. It can detect, diagnose and analyse possible cancerous area from the computed tomography (CT) lung images shortly with high sensitivity. With the consistent development of deep learning and medical image analysis, this technology is believed to have significant value towards and serve as a great assistant to the healthcare service industry.

這個為檢測早期肺癌而開發的系統非常實用，能夠快速自動檢測、診斷和監測肺部電腦斷層掃描（CT）圖像中可疑的癌症區域（肺結節），其靈敏度亦相當高。隨著深度學習和醫學圖像分析的不斷發展，相信該技術對醫療服務行業有著重要的價值，能帶來良好的輔助。

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

The Hong Kong Society for Rehabilitation / Hong Kong Productivity Council
香港復康會 / 香港生產力促進局



e2Care

1 out of 7 Hong Kong people suffered from at least one chronic illness in 2000. However, health condition of Hong Kong people aggravated with 1 out of 5 people suffered from at least one chronic illness in 2015. It was the mission of e2Care to incorporate ICT to community rehabilitation for bringing innovation and the state of the art to primary health promotion in Hong Kong. e2Care.hk offers a barrier free one-stop online platform for people with chronic illness to self-learn knowledge and skills on disease management with various application for health monitoring and SMARTLIVING. Not only access online resources and education, people can enroll offline program through e2Care to benefit from synergy of online and offline approach with more choice on service provision mode. e2are offer public with flexible means to wider scope of knowledge on healthy living.

康程式

2000年7人中有1人，至2015年5人 有1人患最少一種長期病，香港人的健康狀況每況愈下， 利用資訊科技改革社區復康服務，改善香港基層健康，是康程式的宗旨。康程式 是一站式無障礙的網上平台，綜合了長期病患者需要的自我學習資訊及管理健康的應用程式。不單管理長期病，更幫大眾邁向智慧生活。康程式是融合網上及實體服務的平台，連貫社區復康服務。市民透過康程式獲得網上服務，亦可在網上報名實體服務，兩者互相配合，提供更多的彈性，拓寬更廣的健康知識。

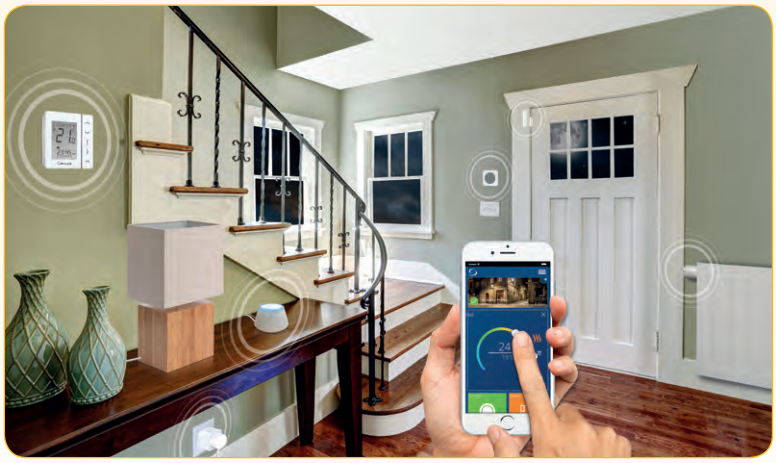
Comments from Judging Panel
評審委員會評語

e2Care is an easy-to-use online health community platform providing rehabilitation support services. Comparing with the conventional rehabilitation service delivery approach, e2Care allows patients to get access to different online resources and self-management system easily, and enable service providers to provide rehabilitation training and services to the patients without restriction on time and place. It is no doubt that, public also can be benefited from the rich and insightful information shared in this platform.

康程式是一個簡易使用的在線健康社區平台，提供復康支援服務。與傳統復康服務提供方式相比，康程式可以讓慢性病患者輕鬆使用不同的網上資源和自我管理系統，也能讓服務單位不受時間和地點的限制，為患者提供康復訓練和服務。 毫無疑問，公眾人士也可受益於此平台上的共享資訊。

Smart Living (Smart Home) Gold Award
智慧生活（智能家居）金獎

Computime Ltd.
金寶通有限公司



Smart Comfort System

In some parts of the world, winter brings about subzero temperatures. Heating control is therefore a very important aspect of people's lives, as it is the heart of home comfort and represents a significant portion of energy bills.
Computime's Smart Comfort System is the first-to-market IoT solution that focuses on home comfort. Sold in Europe and North America under the brand name "SALUS", it is compatible with all major heating/cooling systems, ensuring the home is always at a comfortable temperature and reducing energy consumption by heating specific rooms when and where necessary.
The Smart Comfort System is flexible to add other smart home devices. Through the cloud-based distributed rule engine, homeowners can manage their homes intelligently by creating rules that automate how home devices work with each other. Complete with an intuitive app and voice control, the Smart Comfort System gives homeowners a warm, secure house, and more importantly, peace of mind.

智能溫控系統

世界很多地方均會面對寒冬。因此，供暖控制是日常生活中非常重要的一環，不但是舒適家居的核心，亦佔能源費用的一大部分。
金寶通的智能溫控系統是市場上首個針對舒適家居的物聯網解決方案。此系統以「SALUS」品牌在歐美進行銷售，兼容所有主要供暖製冷系統，確保家居處於舒適溫度，並在需要時為指定房間加熱，減少能源消耗。
智能溫控系統可靈活添加其他智能家居設備。通過分布式雲端規程引擎，住戶可自定規程，令各家居設備自動相互協作，達致智能家居管理。此系統配備簡單易用的應用程序和語音控制功能，給住戶一個溫暖安全的家，讓他們更安心、更放心。

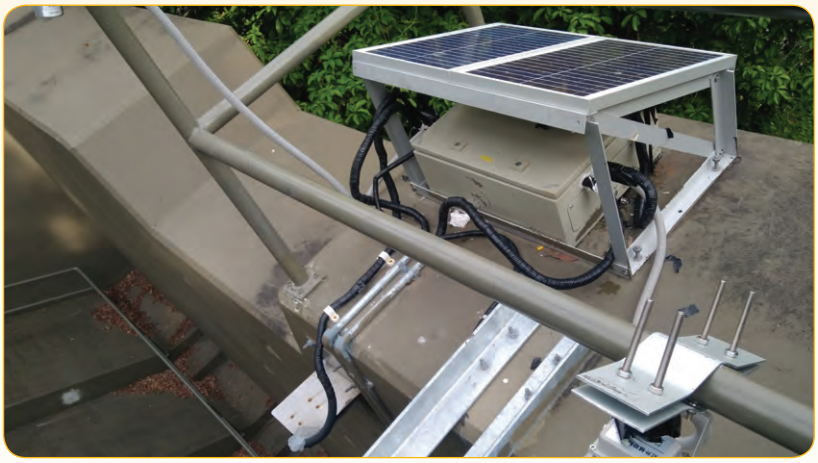
Comments from Judging Panel
評審委員會評語

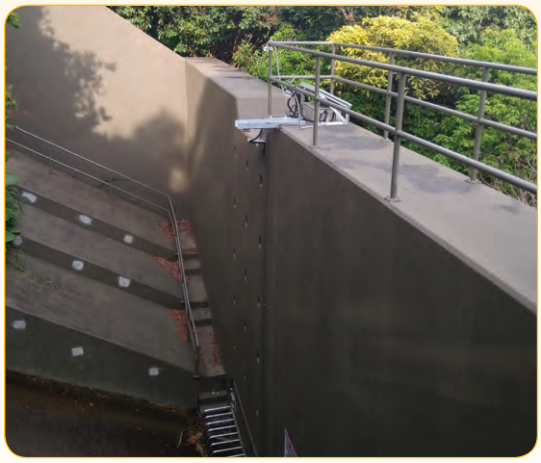
This is an innovative cloud-based distributed rule engine architecture bundled with the local wireless gateway. Its high interoperability allows the system to connect over 200 smart devices concurrently. With the designated App, the users can easily execute various commands.
With the idea of an interconnected living environment with IOT, this innovative system provides users with comprehensive functions and results in a more secure and convenient way of smart home living. The team's effort for the system research and development as a local company deserves our appreciation.

這是一個創新的分布式雲端規程引擎架構與無線網絡捆綁的系統，並互通性可同時連接200多台智能設備。用戶可以通過應用程式輕鬆執行各種指令。隨著物聯網概念日益普及，越來越多人關注互聯生活，該創新和全面的系統，能使智能家居生活更加安全和方便。 此為本地公司自家研發的系統，值得表揚和讚賞。

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

Hawkeyes Solutions Ltd.
鷹眼系統有限公司





Landslide Detection System

Civil Engineering & Development Department (CEDD) of Hong Kong SAR Government has been building (rigid and flexible) barriers along the hillside to arrest debris for the residential area below. The barriers have capacity limits. Overflowing or giving way in a barrier posts a threat to the general public. However, these barriers are often located at difficult-to-access areas, making early detection of accumulation of debris impossible. Our landslide detection system provides real-time monitoring of debris falling and buildup, and issues real-time alerts to the authority.

滑坡監測系統

香港特別行政區政府土木工程拓展署（CEDD）在靠近民居的山坡上修建（剛性和軟性）的屏障，阻止鬆脱的泥石直接衝擊山坡下的民房，防礙居民的生活，和威脅居民的人身安全。但屏障承載能力有限，必須防禦屏障的滿溢對公眾構成的影響。然而，屏障通常位處難以進入的區域，亦難以預測泥石的囤積。我們的監測系統為剛性和軟性屏障提供泥石衝擊和堆積的監測功能，並向有關單位發布實時的泥石衝擊和堆積的警報。

Comments from Judging Panel
評審委員會評語

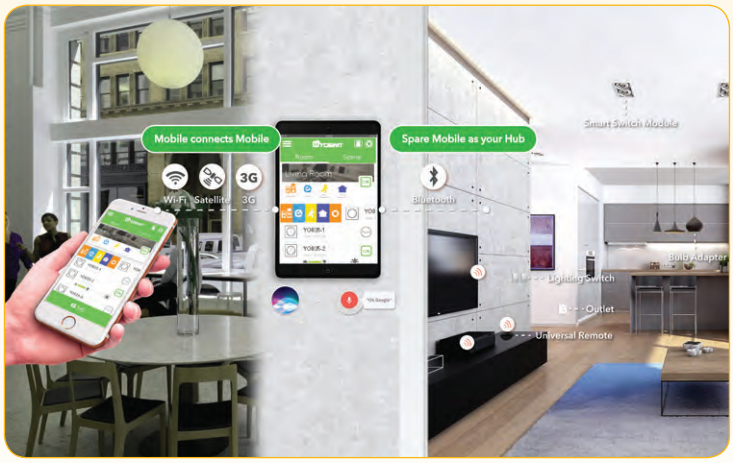
This system is very durable and reliable as it can operate and perform well even in the inclement weather and overcome the shortcomings of traditional barrier.

Its devices and units can be monitored remotely through a web platform and mobile app. It provides real-time data of debris buildup and triggers real-time alerts. In short, this is an effective detection and monitoring system to protect lives and properties.

此系統非常耐用可靠，即使在惡劣的天氣下也能保持良好的功能和運作，並能解決傳統屏障的缺點。所有的設備都可以通過網站和移動應用程式進行遠程監控，提供泥石堆積的監測功能，並發出實時泥石堆積的警報。這是一個有效的檢測和監測系統，能保護市民的生命財產。

Smart Living (Smart Home) Certificate of Merit
智慧生活(智能家居)優異證書

Lincogn Technology Co. Ltd.
嶺勤科技有限公司



Cantonese Enabled Smart Voice Control System

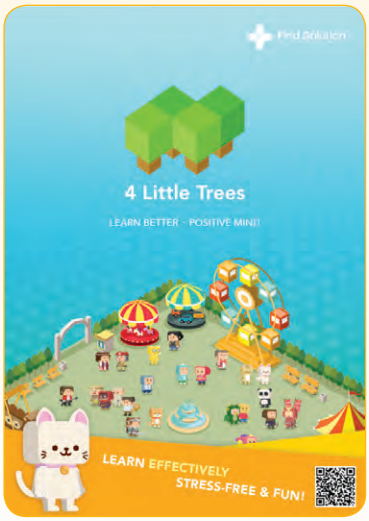
Mob-Mob Cantonese enabled voice assistant is a free open platform for supplementing the award-winning YOSWIT DIY smart control solution for smart buildings, commercial and home applications. Our solution supports 30+ languages including Cantonese and Mandarin. It's not only supporting the voice command predefined in the app, but also accepting the customizable command and workflow by users or administrators. In addition, Mob-Mob platform provides the API for third party to join the program and will integrate the third party API in our solution too. Mob-Mob is the fully localized solution with local language support, allowing people to reuse their spare mobiles, tablets for home automation and home security, such as hubs, baby cam, sensors, etc.

識講廣東話的智能語音控制系統

Mob-Mob智能語音應用程式開放平台可透過廣東話指令操控我們屢獲殊榮的YOSWIT DIY藍牙智能控制系統。我們創新的專利方案，可令你善用備用的手機作為家中的智能中樞，既環保、簡單而又功能強大。我們的解決方案支持包含廣東話和普通話在內的30多種語言，它不僅支持應用程序中預設的人工智能程序，而且還接受用戶或管理員定制的命令和工作流程。此外，我們還為第三方提供API接口連接我們的應用，和將第三方的API集成到我們的解決方案中。Mob-Mob是完全本地化的智能控制系統，透過不同的創新功能和產品吸引用家，更重要的是產品和功能都為香港市場而設計，如廣東話語音助理、繁體中文界面、簡單易用而且免費的手機作網關智能方案等等。

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

Find Solution Artificial Intelligence Ltd.
富成人工智能有限公司



4 Little Trees- AI Driven Emotion Sensitive Smart Learning Application

Find Solution AI has developed an AI driven Motivation Model Software with Deep Learning model to read user's emotion and generate real time interaction & motivation, user's behavior & cognitive awareness, for Educators, Schools, Health Care Provider & Corporates; offering a tailor made, interactive curriculum giving all users the chance to participate and engage in learning and compliance training. Our AI Driven motivation model currently has 14 patents pending worldwide.
Our software, instantly measure the learners' emotion while they are working on a given math exercise. The objective, on a real-time basis, is to motivate the learner, maximize learning efficiency, minimize exam pressure and to develop self-confidence. Based on the AI report, both parents and teachers can have a deep understanding on student's academic performance and personal development. In addition, Find Solution AI identifies abnormal physical patterns, i.e. Depression, ADHD and ASD.

4 Little Trees - 人工智能學習應用程式

富成人工智能開發了一個擁有深度學習模型的人工智能鼓勵學習軟件，能分析學習者於學習時的情緒表現，為他們提供實時互動； 根據學習者的行為和認知程度，提供度身定制的互動課程，讓所有學習者都能投入整個學習過程。此人工智能學習軟件目前擁有14項專利。適用範圍包括：教育，醫療保健和企業培訓。
學習者在進行特定數學練習時，軟件可以實時測量他們的情緒表現。目的是實時鼓勵學習者對學習興趣，大大提高學習效率，減少考試壓力並培養自信。 透過人工智能報告，家長和老師都可以對學習者的學習成績和個人發展有更深入的了解。另外，此人工智能學習軟件更可識辨一些情緒徵狀，如抑鬱症，ADHD及ASD等。

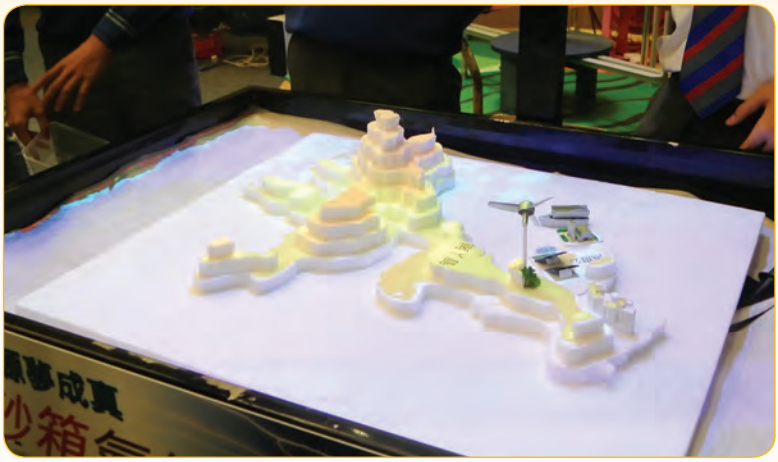
Comments from Judging Panel
評審委員會評語

This is a truely meaningful and thoughtful solution. Integrated with artificial intelligence for facial emotion detection and big data analytics, this application allows teachers/schools to refine teaching methods instantly, based on students' learning progress. Increase teaching and learning efficiency and discover possible learning difficulties or emotional dysregulation at an early stage. Its usage can be expanded to other industries which require to understand the learning progress of the employees.

這是一個非常有意義及體貼的方案。結合人工智能進行面部情緒檢測和大數據分析，讓教師/學校可以根據學生的學習進度，即時優化其教學方法，提高教學和學習效率，並能及早找出可能有學習困難或情緒失調的學生。此應用程式的用途更可推廣至其他需要了解員工學習進度的行業。

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

Avatech Innovation Limited



Augmented Reality Learning Sandscape (ARGEO)

AVATech Innovation Limited is an Education Technology (EduTech) start-up company with emphasis on Augmented Reality (AR) and Virtual Reality (VR). ARGEO is an education instrument that facilitates the geography learning and teaching for students and teachers. Geography education involves a lot of map-related concepts and understanding these a bstract concepts requires students to have strong spatial ability. However, some students of developmental delay in spatial ability may result lower performance than their peers. With ARGEO, intuitive and interactive AR environm ent achieves cognitive offloading, and enables teacher and student to communicate about the geography concepts on a tangible and colorful topological contour map. Students can gain hands-on experience by simply molding the sand in the AR environment, putting virtual rain through hand gestures, and simulating various landscapes supported by physics engines. More than 10 teaching tools are implemented in ARGEO version 3.0, which assists teachers to design lecture materials and homework assignments in an efficient and subtle manner.

AR 智能學習沙盤

ARGEO 是一個專為地理科而設計的教育器材。在產品研發階段，我們了解到學習地理知識需要較好的空間理解能力。ARGEO 上直觀和互動的增強現實環境可以幫助學生促成認知卸載，並有效地學習地理知識。學生可以在顏色豐富的沙盤上模擬不同的山勢地貌，並且能實時改變沙盤上的山勢地貌，利用手勢控制觸發模擬降雨，學生能觀察雨水在山勢上的流動。現時 ARGEO 設有十多款專為教學而設計的功能，能夠有效地提升老師在準備教材和設計功課的效率和質素。

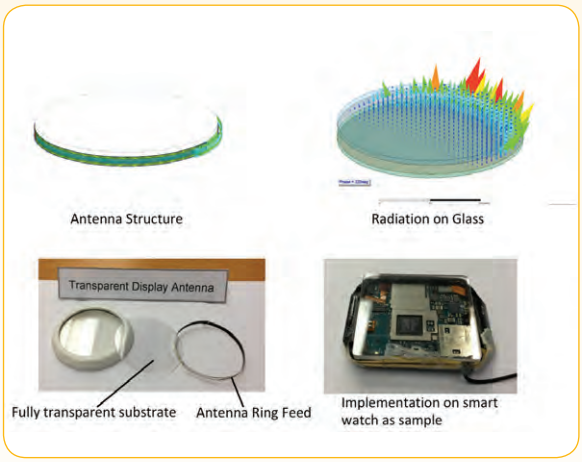
Comments from Judging Panel
評審委員會評語

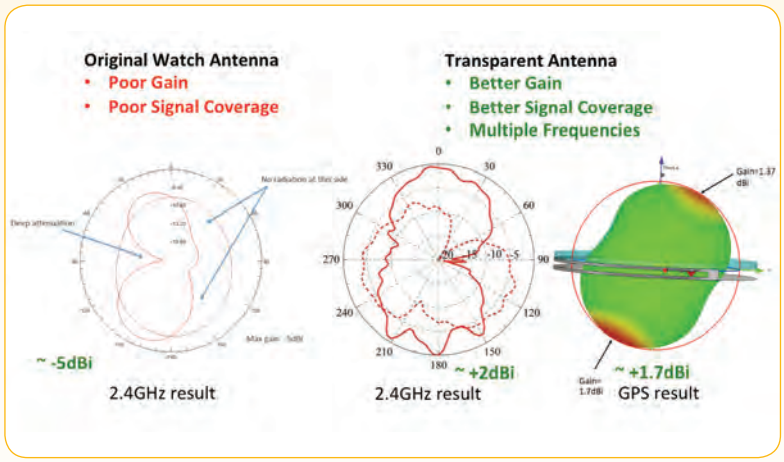
ARGEO is a fun and interactive augmented reality (AR) learning platform that bring abstract geography concepts to life. The platform is very practical and well designed in terms of the software and hardware. It can facilitate students' learning and engagement by providing hands-on experiences with attractive visualization. Various teaching modes/functions are also available for teachers to satisfy their teaching needs and improve teaching effectiveness.

ARGEO 是一個互動、有趣、擴增實境（AR）兼備的學習平台智能沙箱，將抽象的地理概念實體化。此平台非常實用，軟件和硬件的設計亦十分出色。學生能通過實際動手的經驗和吸引的視像效果，有效促進學習，令他們更加投入課堂。教師亦可以選擇使用不同的教學模式/功能，滿足不同的教學需求，提高教學效率。

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

ANTwave Technology Ltd.
天傳科技有限公司





Fully Transparent Display Antenna

ANTwave Technology Limited utilizes software optimized technology to provide dielectric material antenna solution for wireless product using in challenging environment such as compacted product size or limited space, product attached too close to human body, metal enclosed structure, etc. For our latest technology, we have patent pending fully transparent dielectric antenna e.g. glass, sapphire for wearable, smart phone & even base station antenna to replace the antenna on building roof-top. In our design, there is no antenna pattern built on the transparent substrate & so, we can make it fully transparent. Apart from this, it can improve the product overall wireless performance, save product space & reduce cost. Therefore, in the Smart City generation, all IoT products can be connected by our smart invisible antenna.

全透明顯示天線

天傳科技有限公司採用軟件優化技術，為尺寸細小的產品或有限的空間，附著於人體的產品，金屬封閉結構等具有挑戰性的環境中的無線產品提供介質材料天線解決方案。對於我們最新的技術，我們擁有正在專利申請中的全透明介質天線,例如利用在智能產品的玻璃面、藍寶石面，作為天線, 甚至用在窗戶的透明基站天線，以取代建築物屋頂上的天線。 在我們的設計中，透明基板上沒有天線圖案，所以我們可以使其完全透明。 除此之外，它還可以提高產品的整體無線性能，節省產品空間並降低成本。 因此，在智能城市世代中，所有物聯網產品都可以通過我們的智能隱形天線進行連接。

Comments from Judging Panel
評審委員會評語

This is an innovative technology that use fully transparent materials to form antennas. It has good market potential. Besides transforming the design on various products, these transparent antennas can tackle the shortcomings of traditional antennas of their placement location, enhance the reception and the coverage, as well as improve overall connetion perforamnce in the city.

這項技術概念創新，利用全透明物質來製造天線，有很好的市場潛力。該技術可改變產品慣性的設計，亦能解決傳統天線配置位置的缺點，提升接收能力，增強覆蓋範圍，提高城市整體的連接性。

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

GOXD Technology Ltd.
突維科技有限公司

GOXD Memto™ Live Picture Frame

GOXD Memto™ Live Picture Frame can turn ordinary digital photos into 4K ultra-high-definition, or even into startlingly realistic 3D without the need for special glasses. Memto™ also supports Live PhotosTM and cinemagraph playback. The frame comes with a MemtoWorld™ mobile app, which includes access to an online gallery where users can download artworks from around the world to display on their Memto™ Live Picture Frame. Other features include 2D-to-3D conversion and 4K upscaling as well as tuning ordinary pictures to add hyper-realistic depth of field.

GOXD Memto™ 智能相框

GOXD Memto™ 智能相框為用戶提供新的圖片展示方式。Memto™是世界首創的4K超高清裸眼3D智能相框，既支持“動態照片”和“微動攝影照片”功能，亦能感測用戶的動作和距離以激活相框播放動態照片。配合MemtoWorld™應用程序使用，用戶可以把平凡的靜態及動態照片，進行3D立體轉換及提升至4K超高清畫質。或到MemtoWorld™世界級線上畫廊，下載全球不同名師的藝術傑作，於Memto™上生動活現地展示出來。

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

Social Career Ltd.
社職有限公司

Social Career

Social Career is a Hong Kong based technology non-profit organization (reg. 91/15011) founded in 2015. With funding support from The Hong Kong Jockey Club Charities Trust, we have built a free platform that encourages the general public to volunteer and get involved in social causes and service activities.

Our mission is to educate the general public in volunteerism and involvement in social causes and services. To achieve this mission, we devote our knowledge and experience of applying latest information technology to develop a platform that helps non-profit organizations and enterprises with a social mission to encourage and manage long-term and skill-based volunteering activities.

- Educate the general public on social involvement
- Assist non-profit organizations and enterprises with a social mission to take advantage of technology
- Educate corporations on creating a more sustainable social impact
- Create an increasingly volunteering-friendly environment for the general public to contribute their time and talents back to society

社職

社職(Social Career) 是一間建基於科技的非牟利機構，亦是根據《稅務條例》第 88 條獲豁免繳稅的慈善機構(檔案編號： 91/15011)。我們得到香港賽馬會慈善信託基金支持及捐助，建造一個鼓勵普羅大眾參與社會活動和義務工作的免費平台。

我們的任務是要做好社區活動及義務工作的宣傳和教育。為此目標，我們致力運用團隊應用最新資訊科技的知識及經驗，發展一個幫助非牟利組織鼓勵及維持長期技能性義工活動的平台。

- 教育大眾了解投入社區參與
- 幫助非牟利組織充分利用科技，提升影響力
- 教育公司向社會創造更可持續和持久的影響
- 營造一個鼓勵義務工作的環境讓市民大眾有機會善用他們的技能回報社會

Introduction of 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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Acknowledgement
鳴謝

Panel of Judges
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