



HONG KONG
ICT AWARDS
2021 香港資訊及
通訊科技獎

Smart People Award 智慧市民獎



Leading
Organiser
籌辦機構

社聯
HKCSS

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2021香港資訊及通訊科技獎：智慧市民 (智慧共融) 獎

Gold Award 金獎

E-learning for Inclusive Education (E-IE) Association Ltd. / Special school's school-based learning materials digitization scheme and establishment of "E-learning for Inclusive Education Association (E-IE)"
Open Knowledge Association Ltd.

融合教育電子學習協會有限公司 / 知識共享協會有限公司

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materials digitization scheme and establishment of "E-learning for Inclusive Education Association (E-IE)"
特殊學校校本教材電子化計劃

Silver Award 銀獎

St. James' Settlement
聖雅各福群會

656carer.com
656照顧者好幫搜

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Bronze Award 銅獎

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創啟社會科技有限公司

WeVoice+
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Certificate of Merit 優異證書

The Hong Kong Federation of Youth Groups / ClusterTech Limited
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The Open Up System
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Hong Kong ICT Awards 2021: Smart People (Smart Education and Learning) Award

2021香港資訊及通訊科技獎：智慧市民 (智慧教育及學習) 獎

Gold Award 金獎

Science and Technology for Autism Remediation (STAR) Limited
智趣伴星途有限公司

Robot for Autism Behavioral Intervention (RABI)
機哥伴小星

Gold Award 金獎

CUHK Faculty of Engineering and Faculty of Education
香港中文大學工程學院及教育學院

CUHK Jockey Club AI for the Future16Project
中大賽馬會「智」為未來計劃

Silver Award 銀獎

ConnectAR Limited / Ling To Catholic Primary School
ConnectAR Limited / 天主教領島學校

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Certificate of Merit 優異證書

Bridge AI Limited / Hong Kong Applied Science and Technology Research Institute Company Limited
貝智人工智能有限公司 / 香港應用科技研究院有限公司

Integrated Intelligent Intervention (3i)-Learning System for Children with SEN
智慧綜合治療學習系統

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Smart People Award 智慧市民獎



HONG KONG
ICT AWARDS
2021 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 talent 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 2021. 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。

2021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八個大獎中甄選出「全年大獎」。

Objective 目的

Hong Kong ICT Awards 2021: Smart People Award is established to recognise innovative development of ICT products / solutions or ICT-enabled services with the following objectives:

1. To promote the rights of the disadvantaged groups to participate and contribute to the development of information society
2. To recognise the ICT innovations that address the challenges facing the ageing society
3. To encourage ICT in education for all people, safeguard their rights to education and no one will be being marginalised

「2021香港資訊及通訊科技獎：智慧市民獎」旨在表揚社會各界致力發展創新資訊科技產品，並投入資訊科技於服務中，目的如下：

1. 推動弱勢社群參與及促進資訊科技社會發展的權利
2. 表揚各資訊科技創新項目，以回應老化社會面臨的挑戰
3. 推動資訊科技在教育的應用，讓所有年齡、社經背景的人，均能接受教育以及免被邊緣化

Message from Chief Executive of Leading Organiser 籌辦機構獻辭



Mr. CHUA Hoi Wai, JP
Chief Executive
The Hong Kong Council of Social Service

蔡海偉先生，JP
行政總裁
香港社會服務聯會



Innovation and technology provides new opportunities for improving people's quality of life in different domains such as social services, employment, education, economy and mass communication. Yet, many disadvantaged groups do not have the privilege to fully benefit from the applications of ICT.

Over the years, The Hong Kong Council of Social Service (HKCSS) has worked closely with different sectors to promote digital inclusion, enhance better living for elderly people, people with disabilities and carers as well as to advocate educational technology. Since 2017, HKCSS has been actively promoting the application of gerontechnology, creating a platform and engaging different stakeholders to influence policy and develop products and services in order to cope with the upcoming challenges of ageing population.

This year, we are honored to be the Leading Organiser of the Smart People Award again, comprising of the 3 streams of Smart Ageing, Smart Inclusion and Smart Education and Learning, to promote the use of ICT in different scopes, and to achieve the goal of ICT integration for all. The HKICT Awards (Smart People Award) has attracted a record number 73 entries. We are pleased to take the lead, and encourage the community to place more emphasis on ICT development, especially for the needy group in Hong Kong.

I take this opportunity to thank all the entrants for embracing ICT for all and supporting digital inclusion, and congratulate all winners. Your creativity, efforts and contributions will enhance the knowledge and application of ICT among the general public. We share the same mission in promoting the use of ICT in the community and together we will build a just and caring information society.

創新科技在社會服務、就業、教育、經濟、大眾傳播等不同領域改善市民的生活。與此同時，社會上仍有很多弱勢社群未能享受資訊科技所帶來的好處。

多年來，香港社會服務聯會（社聯）一直與許多不同界別緊密合作，推動數碼共融，致力改善長者、殘疾人士以及照顧者的生活，並在教育方面提倡科技發展。自2017年起，本會積極推廣樂齡科技，締造平台予不同持份者推動改善政策，研發不同的產品及服務，以迎接香港人口高齡化的挑戰。

今年我們很榮幸得以再次籌辦「智慧市民獎」，當中分為三大組別：智慧樂齡、智慧共融和智慧教育及學習，以推動資訊科技在不同範疇的應用，讓所有年齡、社經背景及不同能力的人士，均能體會資訊科技在生活及教育各範疇上的便利。今年我們合共收到73份參賽作品，數目為歷年最多。我們將繼續鼓勵社會關注資訊科技在弱勢社群的應用，推動香港成為一個數碼共融的城市。

我謹恭賀各得獎者，並感謝各參賽者在推動數碼共融做出了重要貢獻。你們的創意和積極投入，使大眾對資訊科技的認識和應用水平不斷提升。我期待與各位繼續合作，透過使用資訊及通訊，攜手建立一個公平及關愛的共融社會。

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

Mrs. Agnes MAK, MH, JP
Executive Director
iPrinciple Ltd.

麥鄧碧儀女士，MH，JP
執行董事
iPrinciple Ltd.

My sincere congratulations on the success of all winners of Hong Kong ICT Awards 2021: Smart People Award.

I feel honoured to be the Chairperson of the Final Judging Panel. I am greatly delighted to witness the outstanding performance of the entries this year. It has been an intense discussion during adjudication process as the Judging Panel was utterly impressed by the quality of entries. All entrants have clearly demonstrated their solid research and understanding on their target groups and public, and to foster better living by producing innovative solutions and applications. Congratulations again on their success and thank you for their commitment.

On behalf of the Judging Panel, I would like to extend my sincere gratitude to our dedicated Judges and Assessors who had contributed their time and fruitful labour to make the success of the Smart People Award possible. My heartfelt appreciation also goes to HKCSS and The HKICT Awards Secretariat Office. Their hard work had greatly contributed to the success of the Award.

Let us wish that this year's awardees and entrants will continue to strive for excellence and be able to induce further impact beyond the competition and the Award. Smart People Award will continue to recognise and encourage ICT talent in Hong Kong. Let's work together to promote quality ICT products and services to benefit the community and globally-connected information world.



衷心恭賀「2021香港資訊及通訊科技獎：智慧市民獎」的各位得主！

我感到榮幸獲委任為評審委員會主席。很高興能見證參賽隊伍的超水平表現，經過評審委員專業的討論，優勝的隊伍終於順利產生。參賽隊伍均展示出對不同群體和公眾的充分了解 and 積極研究，並透過創新的方案及應用，為他們創建一個更好的未來。在此再次祝賀得獎者和感謝他們的貢獻。

本屆「智慧市民獎」得以成功，實有賴各方的支持，尤其是參與的評審及審核成員。在選出優勝作品的過程中付出了不少時間和心血。本人謹代表評審委員會向他們衷心致謝。我亦要向香港社會服務聯會和香港資訊及通訊科技獎秘書處致謝，全憑他們的努力，比賽才得以順利圓滿舉行。

衷心祝願本屆得獎者及參賽隊伍繼續追求卓越，在比賽和獎項以外發揮更大的影響力。香港資訊及通訊科技獎：智慧市民獎將繼續表揚及鼓勵香港科技人才。一同協力在社區推動優質資訊及通訊科技產品及服務，讓更多社區以致全球網絡相連的世界受益。



Chairperson 主席

Mrs. Agnes MAK, MH, JP
Executive Director, iPrinciple Ltd.
麥鄧碧儀女士, MH, JP
iPrinciple Ltd., 執行董事

Members 成員

Names are listed in alphabetical order by surname
以英文姓氏排序

Mr. Charles CHAN
陳健雄先生
Executive Director, The Boys' and Girls' Clubs Association of
Hong Kong (BGCA)
香港小童群益會 總幹事

Prof. CHAN Wing-tai, JP
陳永泰教授, JP
Professor Emeritus, HKCT Institute of Higher Education
港專學院 榮休教授

Mr. Victor CHENG
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Executive Director, Hong Kong Education City Limited
香港教育城 行政總監

Mr. Alex CHUNG
鍾孝揚先生
President, Hong Kong Information Technology Federation
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Ir. Stephen LAU, JP
劉嘉敏工程師, JP
Secretary General (Honorary), Hong Kong Computer Society
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Mr. Timothy MA, JP
馬錦華先生, JP
Chief Consultant, Ma Kam Wah & Co.

Dr. Edith MOK, MH
莫關雁卿博士, MH
Vice Chairperson, Hong Kong Society for Rehabilitation
香港復康會 副主席

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香港數碼港管理有限公司 創業家組主管

Mrs. Kiki WANG
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香港科技园公司 創科培育及企業加速計劃總監

Prof. WONG Yu-cheung
黃於唱教授
Professor, Caritas Institute of Higher Education
明愛專上學院 教授

Smart People Grand Award and Smart People (Smart Ageing) Gold Award

智慧市民大獎 及 智慧市民 (智慧樂齡) 金獎

Descamps.Technology Limited

德柯斯科技有限公司

<https://www.descamps.technology>

Ambient 16 for Smart Ageing

Descamps.Technology is a deep-tech company that develops AI based on its own sensor. Together, they create a seamless environment that senses and responds to the behaviour of people. The company services cover smart homes, elderly care, the hotel industry, building and toilet management and crowd flow detection. Its innovative solutions are cloudless, deploying only edge AI and keeping data safe where they have been collected.

The Ambient 16 is the company's flagship sensor. It is the most advanced and compact smart home sensor in the world. The device is fitted with multi sensing and recording 16 physical properties. It provides over 50 home events, embeds machine learning and, most importantly, it respects the privacy, banning the use of cameras and voice recording.

Descamps Elderly Care is based on the Ambient 16 and its artificial intelligence. It detects home activities like mobility, sleep quality, cooking, shower and toilet usage or TV times. Its ambient data has a high sampling rate of 10 seconds. Therefore, it measures major activities of daily living (ADLs) for elderly care. The system is able to transform data into insights and detect subtle changes in vitality, health and life quality. It is an innovative solution for families, caregivers and the society to connect, understand and care of the elderly.

Comments from Judging Panel 評審委員會評語

This locally invented product serves by a passionate group. The product is small, compact and cost effective. It protects user privacy with comprehensive integrated technology, allowing caregivers to understand the needs of the elderly.



Ambient 16 智慧樂齡應用

德柯斯科技是一家深度科技公司，建基於自研傳感器，開發專利的人工智能技術，創建能感知反饋人們行為的智能環境。公司服務包括智能家居、安老、酒店管理、物業和廁所管理、人流檢測等。其創新解決方案採用傳感器的邊緣運算，存儲所收集的數據於用戶端，並不依賴雲端系統，以確保數據安全。

Ambient 16是世界上最先進和細小的多合一家居智能傳感器，能同時記錄16種物理數據、感測50多種家居事件、配備機器學習能力，最重要是已獲認證除了沒配置鏡頭，也沒有錄音或的竊聽功能，保障私隱。

德柯斯安老系統以人工智能及每10秒收集的環境數據，感測如長者走動、睡眠、煮食、如廁、淋浴和看電視等家居事件，紀錄日常生活活動(ADLs)。系統能利用數據洞察出長者活力、健康和生活質素的細微變化，使家人、照顧者和社會更緊密連繫、了解和關心長者。

此本地產品由充滿熱誠的團隊研發，產品體積小、結構精細且具成本效益。結集完善的技術，能於保護用戶隱私下，讓照顧者了解長者日常習慣和需要。

Smart People (Smart Ageing) Silver Award

智慧市民 (智慧樂齡) 銀獎

IF Interactive Ltd.
智能互動科技有限公司

SuperMe Interactive Rehabilitation System

SuperMe is an immersive CAVE system built upon cutting-edge Mixed Reality (MR) technology. Equipped with hybrid sensors, the system makes possible the mixing of virtual simulation and tangible objects in its interactive CAVE environment. The user can interact intuitively with virtual characters and change the animations by touching, stepping, swinging and playing with real objects, etc.

SuperMe provides a variety of interactive solutions for rehabilitation, elderly care and special education. It allows the user to develop positive experience and desirable skills by exposing them to the interaction in the “real” environment which is manageable by the therapists and teachers. The system also enables multi-user interaction for facilitating social skills training.

SuperMe brings an integration of Interactive Multi-Sensory Training, Cognitive Training and Mobility Training, all in one system. It comprises different features including, iSensory Room (multi-sensory training for development of 6 senses — Sight, Hearing, Touch, Smell, Proprioception and Vestibular), Magic Sand Play (tactile training), Piano Magic (music therapy), Creative Art (art therapy), Cycling (cardiac training), iFloor and iWall (mobility training) and Life Skills Training (with an Editor for development of DIY content). A cloud-based Data Analysis & Report System is provided for real-time analysis of training performance and progress.

Comments from Judging Panel 評審委員會評語

SuperMe is a multi-functional, interactive, and immersive product which suits for therapeutic or rehabilitative purposes with professional input and knowledge. It can benefit lots of people in need due to its tailor-made system solution.



SuperMe 互動復康系統

SuperMe是一個基於尖端的混合現實(MR)技術的沉浸式CAVE系統。此系統配備了不同的混合傳感器，能將虛擬影像和可觸實物互相結合在一個交互式的CAVE環境中，用戶可以通過觸摸、踩踏、搖擺和玩弄真實物件等方式，直覺地與虛擬角色進行互動及改變動畫。

SuperMe將交互式多感官訓練、認知訓練和運動訓練集成在一個系統中。讓用戶通過接觸治療師和教師管理的「真實」環境，並參與其中的互動，發展出正面的體驗和所需的技能。

系統具備不同的功能，包括iSensory Room(多感官訓練—視覺、聽覺、觸覺、嗅覺、本體覺和前庭覺)、魔幻沙玩(觸覺訓練)、魔幻鋼琴(音樂療法)、創意藝術(藝術治療)、多人單車、運動訓練和生活技能訓練。SuperMe更提供雲數據分析及報告系統，實時分析訓練表現及進度。

SuperMe是一款創新且多功能的沉浸式體驗系統，適用於專業的復康治療上，可因應個人需求而制定方案，使更多有需要人士受惠。

Smart People (Smart Ageing) Bronze Award

智慧市民 (智慧樂齡) 銅獎

Medmind Technology Limited 醫念科技有限公司

<https://zh.medmindtechnology.hk>



NeuroGym

Medmind Technology is an award-winning healthcare technology startup incubated by Hong Kong Science Park. Medmind Technology is dedicated to developing innovative products to promote healthy ageing. The team of Medmind Technology is composed of university professors and healthcare professionals. The mission of Medmind Technology is to provide an innovative and engaging experience for assessing, monitoring and intervening for diseases, with focus on dementia and other mental health disorders. The team aim to create a socially-inclusive city with less stigma, better disease awareness, early detection and timely treatment.

Medmind Technology developed an interactive cognitive training, monitoring, and gaming platform, "NeuroGym". The research-based cognitive training is elderly-friendly and local cultures-orientated, e.g. Mahjong, calligraphy and daily life scenarios, aiming at active and continuous engagement, and personalized training for the elderly.

Unique features:

1. Personal accounts suitable for individuals and group training and outreach service; the platform will adjust the difficulty level automatically to suit the needs of different users.
2. The report management system allows organizations and caregivers to monitor and assess the cognitive health condition of users, and arrange timely support.
3. Distanced remote-control training, online multiplayer and pre-set schedules are suitable for home training under Covid-19 even without internet.

Comments from Judging Panel 評審委員會評語

This application offers an elderly-friendly interactive game platform for users to keep their brain active and prevent cognitive decline that helping the organizations and caregivers to monitor the cognitive health of elderly.

腦有記

醫念科技是一間由香港科學園培育的醫療科技初創企業，致力研發創新科技產品，以推廣樂齡生活。

醫念科技的團隊包括大學教授和專業醫療人員，研發專為銀齡人士而設的互動平台，特別針對認知障礙症及其他精神健康問題。研究團隊希望透過有趣的疾病監測和治療體驗，減少標籤和提高疾病意識，讓患者及早發現病徵，及早治療，並創建社會共融。

「腦有記」是個一站式互動認知訓練、報告監察和遊戲平台。根據學術研究設計出具長者友善和本土文化特色的程式，例如麻雀、書法治療和日常生活情境等，以鼓勵用家主動和持續地參與個人化訓練。機構、治療師及照顧者亦可透過報告遙距監察和評估用戶的認知健康並及時跟進。

特色：

1. 獨立帳戶，可進行個人或小組訓練，亦可自動調整難度，適合不同的長者使用及上門服務。
2. 機構及照顧者可以透過報告管理系統，監察及評估用戶的認知健康，並提供及時支援。
3. 具遙距控制、多人連線模式、預設訓練內容和時間等功能，方便疫情下在家訓練和社交線上開組，沒有互聯網亦可使用。

此應用程式提供了一個長者友善的互動遊戲平台，讓長者用戶保持大腦活躍以及防止認知能力衰退的同時，亦幫助機構和照顧者監測長者認知能力的健康。

Smart People (Smart Ageing) Certificate of Merit 智慧市民 (智慧樂齡) 優異證書

Department of Computer Science, HKU
香港大學計算機科學系

<https://www.hincare.hku.hk>

HINCare: A Heterogeneous Information Network for Elderly-Care Helper Recommendation

The HINCare system (<https://www.hincare.hku.hk/blog>), which employs novel heterogeneous information network (HIN) and AI technologies, is developed for use in Time-banking community projects to recommend helpers to elderly users.

The HINCare system project integrates Big Data, AI, and gerontology solutions. The gigantic HIN from this project will be useful to gerontology researchers and policymakers. Nonetheless, the system has facilitated implementation of Time-banking in various communities and help developing the community capitals in Hong Kong.

HINCare is now downloadable in Apple and Google Play Store, and has been serving more than 5,000 elders and helpers in 6 large NGOs in Hong Kong. HINCare is extending to support projects of NGO funded by Community Investment and Inclusion Fund (CIIF), a government funding agency.

The unique features of HINCare are:

1. Intelligent timebanking: HINCare is an effective, efficient, and scalable AI-based platform, which supports AI-based matching between helpers and elders. This is the first time that HIN is used to support elderly care.
2. Generic platform: HINCare platform supports multiple organizations, which can enable more sharing of data and collaboration. The novel design allows any NGO interested in timebanking to “subscribe” to our system easily. Instead of complicated software installation, only a few customization steps will all an NGO to set up their own volunteering system in minutes. The platform is cloud-based, allowing data to be managed in a secure and private manner.

Comments from Judging Panel 評審委員會評語

This system offers a cost effective tool which helps to reduce costly expenses on NGOs practicing time-banking and volunteers matching.



- 為多間社福機構服務
- 快速搭建專屬平台

- 搭配「手牽手」App
- 義工服務更方便

HINCare: 推薦長者助理的大規模異構網絡

HINCare (<https://www.hincare.hku.hk/blog>) 是一個使用了異構信息網絡(HIN)和人工智能技術來開發的時間銀行平台，以配對義工予老人服務使用者。

這項目融合了大數據、人工智能和老年學，其中的大型HIN數據庫，將為老年學的研究和政策提供實用的基礎。並且，HINCare也提供了一個有效平台，給各類型的社區時間銀行使用，有效地開發和建立社區資本。

HINCare的手機應用程式已可於App Store和Google Play下載，目前已有6間社福機構約5,000名會員使用。HINCare也已推廣至勞工及福利局社區投資共享基金所支援的社福機構開辦的社區時間銀行項目使用。

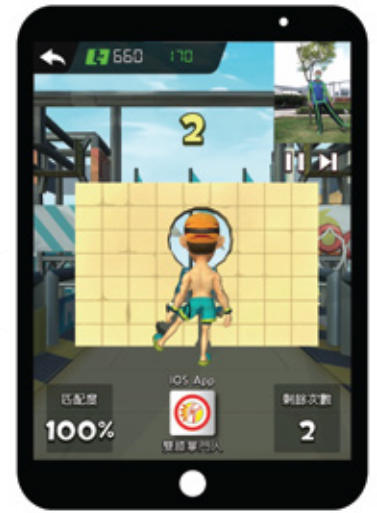
HINCare時間銀行的特色：

1. 智能時間銀行：HINCare是一個方便有效並可擴展的智能平台，為服務需要者配對相關義工。這是首次把HIN技術應用在長者服務的支援。
2. 通用平台：HINCare能夠同時支援多個社福機構，並在有需要和協議後，作跨機構合作。有興趣使用通用平台的社福機構，不需安裝複雜的程式，祇用幾個簡單網上按鍵，便可輕鬆地「訂閱」和於幾分鐘內在HINCare設立專屬的義工配對系統。這平台是一個雲端平台，對資料和信息的加密保安提供了相對安全的運作環境。

此項目提供了一個經濟實惠的方法，讓非牟利機構可減省推行時間銀行和進行義工配對的高昂成本。

Smart People (Smart Ageing) Certificate of Merit 智慧市民 (智慧樂齡) 優異證書

Hong Kong Sheng Kung Hui Welfare
Council Limited / Giant Bear Technology Limited
香港聖公會福利協會有限公司 /
巨熊科技有限公司



Master Knees

“Master Knees” is the innovative Artificial Intelligence tablet application developed by Hong Kong Sheng Kung Hui Welfare Council, specifically for individuals with knee problems. Varied with their ability, users’ exercise intensity, frequency and cooling time would be adjusted accordingly. The App aims to strengthen users’ understanding of knee osteoarthritis, encourage them to establish a healthy exercise habit, and ultimately, become their own masters of their knees.

It has incorporated features of “Exercise, Game, and Therapy”. With A.I. technology, the App could detect and record user’s movement and performance in real time. The exercise rooted in the App has four focuses of practices — stretching, mobilization, muscle strengthening and balancing. Through the camera lens of the tablet, it tracks and captures users’ posture and joint angle during the exercise, then match with the standardized data to generalize the ongoing scores. The matching scores give instant feedback all in real-time to users on their performance. Users become the player of the game and they have to finish all the prescribed exercises to clear a stage with higher scores.

By the data record and skeleton figures, it could figure out the real-time exercise performance of users and fine tune their exercise prescription, so that they could obtain the most appropriate treatment and maximize its effectiveness.

Comments from Judging Panel 評審委員會評語

Master Knees is an application for individuals who are specifically with knee problems. This application integrates game with physical exercise to maintain knee health, and learn appropriate patterns of behavior.

雙膝掌門人

「雙膝掌門人」是由香港聖公會福利協會主導研發，為社區膝患人士而設的首創人工智能應用程式。因應不同退化程度，程式可個人化調節運動招式、運動度、頻率、休息時間等。程式旨在提高用家對膝痛的認識，建立運動習慣，做自己一對膝蓋的主人。

程式將運動、遊戲、治療融為一體。結合人工智能技術，能夠實時偵察及追蹤玩家的運動表現。運動主要包括四大範疇：伸展、關節舒緩、化肌肉、平衡訓練。透過內置鏡頭，遊戲內的角色人物隨玩家所作出的動作而擺出相應的姿勢，玩家的運動表現與標準動作有即時的比較，從而得出匹配程度，分數越高，越能順利闖關。

透過程式記錄的數據和姿勢骨架圖片，能夠有效分析玩家實時的運動表現，從而調節其運動處方，讓玩家得到適切的治療，達到最佳的果效。

Master Knees是一個為解決膝關節問題而設的應用程式。結合遊戲和運動鍛煉的元素，學習適當的行為模式，以保持膝蓋健康。

Smart People (Smart Inclusion) Gold Award

智慧市民 (智慧共融) 金獎

E-learning for Inclusive Education (ELFIE)
Association Ltd. /

Open Knowledge Association Ltd.

融合教育電子學習協會有限公司 /

知識共享協會有限公司

<https://www.elfie.org.hk/copy-of>



Special school's school-based learning materials digitization scheme and establishment of "E-learning for Inclusive Education Association (ELFIE)"

ELFIE Project believe every student is able to learn. There should be no distinction between mainstream and special-needs students in terms of implementing e-Learning. Unfortunately, there is a lack of electronic books on the market that are specifically aimed at the needs of students with learning difficulties. Therefore, ELFIE project developed a long-lasting resource bank to assist schools and teachers in developing electronic learning materials.

"Special school's school-based learning materials digitization" is funded by the HSBC 150th Anniversary Charity Programme. ELFIE project is a collaboration between these following parties: Sam Shui Natives Association Lau Pun Cheung School, C.C.C. Kei Shun Special School, TWGHs Tsui Tsin Tong School, The Education University of Hong Kong — The Centre for Special Educational Needs and Inclusive Education (CSENIE) and Open Knowledge Association.

In this three-year project, ELFIE established a learning management system RainbowStar, and produced a total of 572 electronic textbooks in various subjects. ELFIE project have also founded the E-Learning for Inclusive Education Association (ELFIE), to facilitate and encourage mutual sharing, creation and integration. In this project we have conducted over 1000 sections of e-Book trials, lesson observations, and teaching exchanges. The EdUHK Team also conducted research on the "Innovative Teaching Methodology for Special Schools" and opened sharing sessions for teachers, therapists, scholars and researchers.

Until 2021, ELFIE have over 60% of special school are RainbowStar users, and expecting more in the future.

Comments from Judging Panel 評審委員會評語

The ELFIE project offers an excellent learning platform for the students who have learning difficulties. This thoughtful project not only offers a platform for teachers creating digital content on their own, but also provide suitable material for students which enhancing their learning effect.

特殊學校校本教材電子化計劃

ELFIE計劃相信特殊學習需要的學生應與主流學生一樣能享受電子學習帶來的好處。遺憾的是，市場上缺乏為特殊學生而設計的電子教材。因此ELFIE計劃開發一個電子教學系統及資源庫，以協助特殊學校教師編製及共享電子學習材料。

「特殊學校校本教材電子化計劃」得到「豐150週年慈善計劃」資助，主要計劃成員包括：三水同鄉會劉本章學校、中華基督教會基順學校、東華三院徐展堂學校、香港教育大學 — 特殊學習需要與融合教育中心和知識共享協會。

ELFIE計劃於開展的項目首三年建立電子學習平台RainbowStar，製作了572本電子教材，並成立了「融合教育電子學習協會(ELFIE)」，以促進學術交流、創造和合作。計劃期間進行了超過 1000 場教學交流活動，教大團隊亦就創新教學法進行研究，並開設分享會。

直至2021年，超過60%特殊學校RainbowStar用戶。ELFIE期待更多學校加入，一起為融合教育作出貢獻。

ELFIE計劃是一個為有特殊學習需要學童而設的優秀學習平台。這個貼心的計劃不僅為教師提供一個自創的數碼平台，同時亦能為學生提供合適的教材，以提高他們的學習效果。

Smart People (Smart Inclusion) Silver Award

智慧市民 (智慧共融) 銀獎

St. James' Settlement
聖雅各福群會

<https://656carer.com>

656carer.com

With the full support from the Growth Partner and Funder, The D. H. Chen Foundation, in partnership with the St. James' Settlement, the 656Carer.com Online Platform was launched in July 2020. Starting from the traditional Chinese wisdom, 656 Platform is aimed to provide a one-stop and interactive resource hub to cater the needs of carers and elderly. In understanding of the pressing needs from carers in identifying timely caring solutions and the limitations of conventional service hours, 656 Platform focuses on three major categories in stroke, dementia, falls and fractures to provide caregiving resources. The website 656carer.com offers simple, comprehensive and practical information with territory-wide resource maps, to search interim to long-term care services from rehabilitation, community care to elderly homes etc., to alleviate the burdens of caregivers.

656 Platform also carries a pioneering chatbot with a live chat system to provide responsive care advice of the three disease areas. Through a simple flow of conversations to understand the condition of the elderly, it generates a preliminary need analysis to filter customized resources nearby the users and caring tips, together with an on-demand follow-up service. Building on with the data aggregation and analytics, 656 platform aims to further address the pain points and service gaps of caregivers, by developing an online service model to better the wellbeing of the elderly and their family carers by fostering the accessibility to interim caring information, resources and carers community.

Comments from Judging Panel 評審委員會評語

This application offers a one-stop information portal for carers to receive practical information and other follow up preparation for the elderly if they suffer from acute disease. It helps to alleviate the burdens of carers.



656照顧者好幫搜

由發展夥伴及捐助機構陳廷驊基金會全力支持，聖雅各福群會策劃，「656照顧者好幫搜」於2020年7月推出。從傳統智慧「老吾老，以及人之老」出發，是一個專為護老者而設的一站式資訊互動平台。明白照顧者急切尋找安老服務的需要，以及傳統服務時間上的限制，因此，網站主要針對中風、認知障礙症、跌倒及骨折三大範疇。網站656carer.com網站提供全面簡明的照顧資訊及資源地圖，協助搜尋復康、社區照顧、安老院舍等服務，一應俱備，解決燃眉之急。

656亦提供以Chatbot(聊天機械人)配合專人諮詢的通訊平台，支援三大病類照顧疑難。從簡單的對答了解長者狀況，初步分析需要，協助照顧者篩選附近合適的服務和貼士。平台透過資訊匯聚及數據分析，進一步了解照顧者痛點及服務縫隙，開拓線上模式提供資訊、資源及同路人支援。

此網站提供了一個一站式資訊平台，讓護老者接收照顧長者的資訊，以及提供其他後續的資訊給需要照顧患上急性疾病長者的護老者。有助減輕照顧者的負擔和徬徨。

Smart People (Smart Inclusion) Bronze Award

智慧市民 (智慧共融) 銅獎

InnoSpire Technology Limited
創啟社會科技有限公司

<https://wevoiceplus.hk>

WeVoice+

WeVoice+ is a free mobile app that connects visually impaired people and backend helpers.

The app has four functions. Firstly, blue button is for photo description, users can take a picture and send it to a group of volunteers, where available volunteers can describe the picture to the user through voice/ text message.

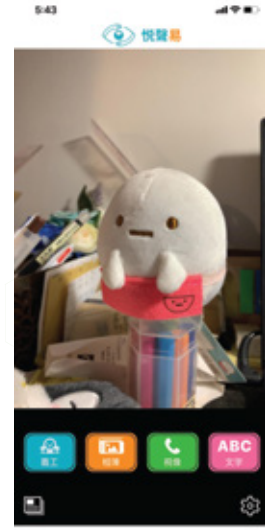
Secondly, orange button is for album, users can select a photo from an album on their smartphone and send it to a group of volunteers to receive descriptions.

Thirdly, green button is for video call support, user can use this function mainly supported by trained staff to get real-time visual assistance.

Lastly, artificial intelligence text recognition function can analyze and voice out the content of the photo.

Comments from Judging Panel 評審委員會評語

The mobile application provides a thoughtful and simple operation for people with visual impairment to cope with their daily visual challenges.



悅聲易

悅聲易(英文名: WeVoice+) 是一個免費安裝, 為有需要人士提供視力協助的手機應用程式。

最左邊藍色的「義工」掣, 是一個拍攝掣, 當用戶看不清楚物件或包裝時, 按下按鈕便能夠即時拍照, 並即時傳送給義工, 讓義工描述照片的內容給用戶。

第二個是橙色的「相簿」按鈕, 按下這個掣, 用戶可以從手機中的相簿選取照片, 上傳向義工查詢照片內容。

以上兩個功能, 用戶都可以留言向義工查詢照片中的特定內容。

第三個按鈕是綠色的「實時視像通話」, 用戶在室內環境, 例如商場或超級市場, 需要尋找某間店舖時, 可以按下此按鈕與義工進行即時通話, 讓義工向用戶提供協助。

最右邊的按鈕「文字辨識」, 同樣是一個拍攝掣, 用戶只需對住文件或信件按下按鈕, 系統便會分析拍攝到的文字並讀出相關內容。

此手機應用程式的操作簡易貼心, 解決視障人士在日常生活中因視力問題而造成的不便。

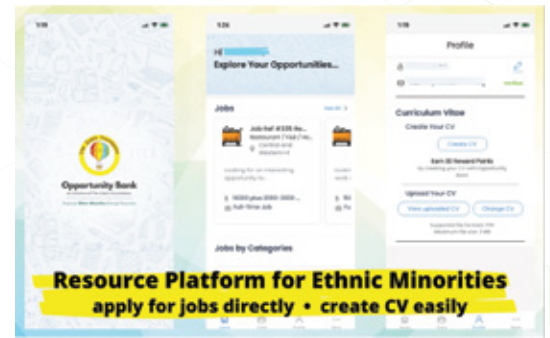
Smart People (Smart Inclusion) Certificate of Merit 智慧市民 (智慧共融) 優異證書

The Zubin Mahtani Gidumal Foundation Limited

<https://www.zubinfoundation.org/opportunitybank>

Opportunity Bank

Opportunity Bank is an online hub created by The Zubin Foundation with a dedicated focus on ethnic minorities (EM) in Hong Kong. Opportunity Bank, comprising the components of social media channel, app and website the three parts of the virtual portal (the Portal), connects ethnic minorities to vital job hunting, internship seeking, scholarship opportunities, welfare services, training programmes, and the latest information about COVID-19, etc., that foster their development and increase their wellbeing and the quality of life overall — not only serving a specific individual but benefitting the whole family unit.



小彬紀念基金會(The Zubin Foundation)創立「少數族裔機遇庫(Opportunity Bank)」項目為香港少數族裔提供一個一站式資訊分享及資源配對平台。

少數族裔機遇庫(Opportunity Bank)為香港少數族裔而設，讓他們能聯繫更多相關有用資源，增強他們的能力，通過就業和教育做到脫貧，改善生活質量並向上流動。

少數族裔機遇庫服務包括：就業、培訓、獎學金、保健及社會服務轉介以及各項有用資訊。

Comments from Judging Panel 評審委員會評語

The platform serves to provide opportunities and fill the gap for ethnic minorities student by an enthusiastic team. Information sharing and resource matching helps ethnic minorities youngsters to prepare their career path as earliest as they can.

此項目由一個熱心的團隊提供平台，協助少數族裔學生，拉近他們與社會之間的距離，並提供資訊分享和資源配對的機會，幫助少數族裔青年可盡早準備生涯規劃。

Smart People (Smart Inclusion) Certificate of Merit 智慧市民 (智慧共融) 優異證書

The Hong Kong Federation of Youth Groups /
Clustertech Limited
香港青年協會 /
聯科集團(中國)有限公司

The Open Up System

The Open Up system is a multi-cloud solution established for the Hong Kong Jockey Club Online Emotional Support Service for Youth ("Open Up" Service). It provides free and 24-hour online counselling service for youngsters with emotional issues, as well as suicide prevention. The Open Up system enables text communication from multiple channels including WhatsApp, Facebook Messenger, SMS, and the official web portal. It not only designed to respond to changes in communication behaviour among youngsters, but also leverages Artificial Intelligence to improve the service quality.

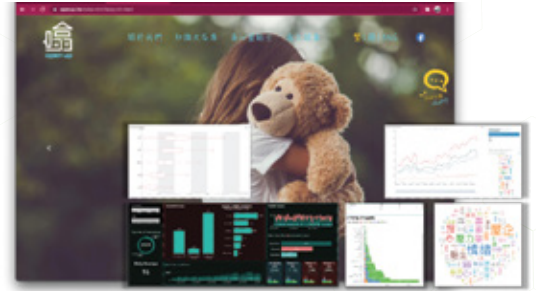
The SMART Module for Open Up system was launched in 2020, using AI capabilities and machine learning algorithms with domain knowledge to shorten the data analysis time and predict the demand trend. Through NLP techniques, the semantic content in mixed language conversations can be analyzed accurately and smoothly.

The SMART Module strengthens the ability to identify chat topics and the reason of help-seeking. It also adds the ability to visualize changes in suicide risk in real time and provides best practice guidance and the most relevant external resource and information to support our counsellors.

Since October 2018, more than 77,000 individuals accessed the Open Up. The Open Up will continue to use the state-of-the-art technology to provide emotional support and suicide prevention for young people in Hong Kong.

Comments from Judging Panel 評審委員會評語

This platform reflects the need of youngster's emotional counseling. Meanwhile, service quality can be improved through the application of AI and large volume of data. It helps consultants to identify the problems of help-seeking and comfort their emotions effectively.



Open 瞻

「Open Up」由香港賽馬會慈善信託基金的支持及捐助，為年青人而設的網上情緒支援平台。全天候24小時，透過社交媒體和不同訊息工具，讓年青人以手機、平板或電腦，在WhatsApp、Facebook Messenger、手機短訊或官方網站進行溝通。陪伴年青人一起面對來自學業、家庭、及工作等引致的情緒困擾。

於2020年發佈的SMART模組，融合專業的社會務知識和機器學習的運算能力，利用NLP技術，在中英混合的對話內容中，實時執行語意分析，不但大大縮短數據分析的時間，更有效地發掘年青人的求助趨勢。

輔導員在每個對話容中，透過SMART模組，能準確地辨識出求助者的主要困擾。同時，更可以監察求助者的自殺指數及情緒變化，及時利用SMART模組提供的指導方式、及有用資信，為年青人解憂。

平台於2018年10月推出至今，已為超過77,000人次提供了適切的服務。「Open Up」將繼續利用最先進的科技及技術，為香港的年青人提供情感支援和預防自殺。

此平台能回應青少年對情緒支援的需要，同時，AI和數據應用可以提高服務的質素，以協助輔導員分辨求助者的情緒問題，並提供適切的輔導。

Smart People (Smart Education and Learning) Gold Award

智慧市民 (智慧教育及學習) 金獎

Science and Technology for Autism Remediation (STAR) Limited 智趣伴星途有限公司

<https://star-autism.com/rabi>

Robot for Autism Behavioral Intervention (RABI)

“Robot for Autism Behavioral Intervention (RABI)” aims to help the children who with Autism Spectrum Disorder (ASD) aged three to six to continue their learning during the school suspension period under the outbreak of COVID-19, and train them in acquiring a wide range of social and behavioral skills.

The lesson will be conducted weekly with the support of a tutor to operate the robots and lead the lesson. There will be two service plans.

1. Online RABI: Online RABI will be delivered online to families with access to computer hardware and high-speed internet. One-on-one Online RABI and small group sessions will be delivered to children with moderate autism and mild autism respectively.
2. Home-based RABI: Home-based RABI will be delivered at children's home and suit families without access to computer hardware and high-speed internet, or children having severe autism.

Expected Impacts:

To provide online RABI and home-based RABI for 100 and 30 autistic children respectively, of which 50 autistic children are from low-income families.

Comments from Judging Panel 評審委員會評語

The application offers a user-friendly service in training Autism kids with their social skills at home, it also puts great effort on releasing parents or carer's burden of Autism kids. It is expected to gain a greater level of adoption in ASD student.



機哥伴小星

項目主要為三至六歲自閉症兒童在2019冠狀病毒病疫情下及學校停課期間提供持續學習的機會，訓練他們掌握日常社交及行為技巧。

課堂每星期進行一次，每次均由導師協助操作機械人及引領課堂的進行。項目下設有兩種服務計劃。

1. 網上「機哥伴小星」為家中置有電腦硬件及高速網絡的家庭提供網上授課服務。授課形式分為單對單授課及小組形式授課，分別切合中度及輕度自閉症兒童。
2. 居家「機哥伴小星」為家中沒有電腦硬件及高速網絡的家庭；或重度自閉症兒童提供上門授課服務。

預期效益：

為100名自閉症兒童提供網上授課服務，及為30名自閉症兒童提供上門授課服務；當中有50名自閉症兒童來自低收入家庭。

此項目為自閉症兒童提供一站式居家的社交訓練，同時亦致力減低自閉症兒童的家長或照顧者負擔。期待此產品可在未來得到更高的採用率於自閉症兒童的身上。

Smart People (Smart Education and Learning) Gold Award

智慧市民 (智慧教育及學習) 金獎

CUHK Faculty of Engineering and
Faculty of Education

香港中文大學工程學院及教育學院

<https://cuhkjc-aiforfuture.hk/index.php/en/ai-for-the-future>



CUHK Jockey Club AI for the Future Project

The CUHK Jockey Club AI for the Future Project (the Project), funded by The Hong Kong Jockey Club Charities Trust and co-organized by The Chinese University of Hong Kong (CUHK) Faculties of Engineering and Education, is a three-year collaborative initiative since 2019. The Project's vision is to design and develop a sustainable pre-tertiary AI education framework for Hong Kong.

The Project published the first-ever AI Teaching and Learning Pack co-created by CUHK and Secondary Schools, entitled "Artificial Intelligence Curriculum for Junior Secondary Students in Hong Kong - Teaching and Learning Pack" in September 2021. Along with the five-level depth pedagogical framework of "Awareness", "Ethics and Impacts", "Knowledge", "Interactions" and "Empowerment", the Curriculum composes of 12 chapters 55 modules and allows flexibility in delivering to students of different ability and interest.

The Curriculum is supported by hands-on online experiments developed by CUHK and hosted at an e-learning platform. The Project Team has also specially invented a robotic car, "CUHK-JC iCar", which is ideally and tightly coupled with the delivery of certain introductory modules with built-in AI functions. Established in May 2021, the Project's "AI Education and Exploration Lab" offers AI Workshops and showcases various AI demonstrations for school visit.

The Project has reached more than 12,000 students and recruited 63 Participating Schools, Affiliate Schools and Network Schools. To engage people from different walks of life to AI education, various public dissemination initiatives such as competitions and camps have been working to enable more students to learn about AI.

Comments from Judging Panel 評審委員會評語

This programme develops an AI education framework for pre-tertiary school in Hong Kong. Through diversified practices to encourage and stimulate students' learning motivation on AI technologies.

中大賽馬會「智」為未來計劃

中大賽馬會「智」為未來計劃（計劃）由香港賽馬會慈善信託基金捐助，香港中文大學（中大）工程學院及教育學院聯合主辦，於2019年正式開展，為期三年。計劃的願旨在於於中學建立可持續的AI教育模式及框架。

計劃於2021年9月出版首套由中大及本地中學共同創建的《香港人工智能教育初中課程教學資源套》。內容環繞教學框架五大元素，包括「意識」、「知識」、「互動」、「能力強化」和「倫理及影響」。課程包含12個章節及55個模塊，可按學生的程度及興趣靈活教學。

計劃的課程配有由中大開發的AI實驗，寄存於網上學習平台，另團隊亦特別研發出人工智能車CUHK-JC iCar，配合內置的AI功能，為初學者提供入門級AI體驗。計劃的人工智能教育及探索實驗室於2021年5月正式開放予學校參觀，提供AI工作坊及展出多項AI展品。

計劃至今已接觸超過12,000名學生及招募63間參與、同行及網絡學校。為了讓更多公眾接觸AI教育，計劃不時舉辦公眾教育活動，如AI比賽及訓練營，吸引更多學生樂在AI。

此計劃為香港中學建立AI教育的框架，透過多元化的實踐手法，鼓勵和激發學生對AI學習的動力。

Smart People (Smart Education and Learning) Silver Award

智慧市民 (智慧教育及學習) 銀獎

ConnectAR Limited /
Ling To Catholic Primary School
ConnectAR Limited / 天主教領島學校

<https://zh.storytellar.io>



StoryTellAR

Large scale of negative effects on education and social interaction caused by the pandemic. We would like to apply our AR technology on education and social fields, and created StoryTellAR, which is specifically designed for blended learning and tools to connect offline learning materials seamlessly with interactive digital content by Augmented Reality that can improve social distance between children.

User can enrich the existing physical book at any time and place by applying audio, video, Q&A, and other digital content, then share it with their friends, who can watch the story created by other children in StoryTellAR. Then ask questions and interact with creators and story in StoryTellAR. It allows children to connect socially even if they are in different places.

Besides, teachers can create AR digital content on physical textbooks for students to interact with their learning materials. StoryTellAR can works with any physical textbooks, worksheets, or subjects. StorytellAR suitable for different learning models, for example, self-learning, parent-assisted home learning, and school learning, which allow teacher to monitor students' reading data and answer their questions about the textbook content. Breaking through the limits of physical books unavailable to support images and sound, and reduce the cost of buying reading pens.

Comments from Judging Panel 評審委員會評語

This application offers an interactive learning platform for student in different learning models. Teachers and students can create their own learning materials and share to each other.

StoryTellAR

StoryTellAR專門設計用於混合式學習，是一個能幫助小朋友拉近社交距離的工具。

用家可在任何時間和地點通過應用音頻，視頻，問答等方式，以AR電子內容來豐富現有的實體圖書，再分享給他的朋友。他們可以在StoryTellAR上觀看其他小朋友所設計的電子故事，然後提出問題，與創作者及故事書StoryTellAR上進行互動。即使身處不同地方，亦能讓小朋友在StoryTellAR上進行社交聯繫。

老師亦可以設計電子教學內容，讓學生與老師在應用程式之中進行互動，以豐富實體教材。StoryTellAR適用於任何實體教材、作業簿及科目。StorytellAR適用於不同的學習模式，例如，自我學習、家長輔助的家庭學習、及校園學習，老師更可以監察學生閱讀數據及解答他們對內容的疑問。實現突破實體書無法有聲有畫的限制，亦降低購買點讀筆的成本。

此應用程式為不同學習模式的學生提供一個互動的學習平台。老師和學生可以為教材創作和增添不同的內容，並分享給老師、同學或朋友。

Smart People (Smart Education and Learning) Certificate of Merit

智慧市民 (智慧教育及學習) 優異證書

Bridge AI Limited / Hong Kong Applied
Science and Technology Research
Institute Company Limited

貝智人工智能有限公司 /
香港應用科技研究院有限公司



Integrated Intelligent Intervention (3i)-Learning System for Children with SEN

Applied Behavior Analysis (ABA) is a scientific, data-driven, highly individualized, and effective teaching approach for students with Special Educational Needs (SEN). ABA have developed a revolutionary distance-learning system to support parents and teachers in conducting ABA therapy for SEN children at home and school. By combining Artificial Intelligence and Internet of Things (AIoT), ABA system helps develop Individualized Education Plans (IEP) for SEN students.

ABA learning system leverage learning data, student physiological data and environmental data of classrooms collected during lessons for training performance analysis. It acts as a cost-effective solution to speed up the assessment process and customize an IEP for each individual SEN student.

智慧綜合治療學習系統

應用行為分析(ABA)是一種科學、數據驅動、高度個性化和有效的教學方法，適用於有特殊教育需要(SEN)的學生。ABA開發了一個革命性的遠程學習系統，以支援家長和教師在家中 and 學校為他們的SEN孩子/學生進行ABA治療。系統結合了人工智能和物聯網(AIoT)，為SEN學生定制個性化教育計劃 IEP)。

ABA學習系統利用在課程中收集的學習數據、學生的生理數據和課堂環境數據進行培訓表現分析。該系統提供了一種具有成本效益的解決方案，從而加快評估過程並為每位SEN學生量身定制 IEP。

Comments from Judging Panel 評審委員會評語

This application offers an effective solution in helping teachers and parents to design an individualized education plans for SEN student, which helps to prepare and react for the sudden change of emotion of SEN students.

此應用系統為SEN學生的老師和家長，提供了一個相當有效方案，先分析學生數據，再為其定制個人化的教育計劃，協助準備和應對SEN學生突如其來的情緒變化。

Introduction of Leading Organiser 籌辦機構簡介



The Hong Kong Council of Social Service (HKCSS) works to promote a just and inclusive society by promoting collaborative efforts among NGOs in service planning and development, facilitating cross-sectoral partnership, advocating equality, justice, social integration and a caring community. The Council has now become an umbrella organisation of over 490 Agency Members, that provide over 90% of the social welfare services for those in need through 3,000 service units all over Hong Kong.

香港社會服務聯會(簡稱「社聯」)是一個代表非政府社會福利服務機構、具清晰信念與專業能力的聯會組織，致力推動本港社會福利的發展。社聯與會員機構共同信守社會的公義、公平，推動社會福利界與商界及其他專業團體的策略伙伴聯繫，共同建立共融及關懷的社會。社聯現時共有超過490個機構會員，它們透過其屬下遍布全港3,000多個服務單位，為本港市民提供超過九成的社會福利服務。

Enquiry 查詢

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Fax 傳真：2865 0823 Website 網址：<http://ictawards.hkcss.org.hk>

Acknowledgement 鳴謝

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以英文姓氏排序

Chairman	Mrs. Agnes MAK, MH, JP 麥鄧碧儀, MH, JP	iPrinciple Ltd.
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	Mr. Jeffrey CHAU 周思藝先生	Breakthrough 突破機構
	Mr. Francis FONG 方保僑先生	Hong Kong Information Technology Federation 香港資訊科技商會

Acknowledgement

鳴謝

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馬錦華先生

Members

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Smart Inclusion 智慧共融

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Smart Education & Learning 智慧教育及學習

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Members

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