



Press Release

For Immediate Release

**Hong Kong Computer Society Leads Hong Kong ICT Delegation to Glory –
Biggest Number of Winners in Asia Pacific ICT Awards 2019 (APICTA)
with 6 Winners and 10 Merits**

23 November, 2019, Hong Kong – The Hong Kong ICT delegation emerged triumphant again in the Asia Pacific Information and Communication Technology Alliance Awards 2019 (APICTA 2019) held in Halong, Vietnam. After fierce competition, 26 entries from Hong Kong, participating in 24 categories, have proudly received 16 awards including 6 Winners and 10 Merits, making it the biggest winner in this international awards competition.

Hong Kong Winners and Merit Recipients in APICTA 2019:

	Category	Winning Organisation	Product Name
Winner	Public Sector and Government - Government and Citizen Services	Hong Kong Observatory (HKO)	From detection of rain to safeguarding of the community against hazardous weather
Winner	Technology - Artificial Intelligence	Hong Kong Observatory (HKO)	From detection of rain to safeguarding of the community against hazardous weather
Winner	Technology – Big Data Analytics	Gekko Artificial Intelligence Ltd.	Gekko Graph
Winner	Consumer - Media & Tourism	VAR LIVE International Limited	VAR LIVE Shop / VAR BOX
Winner	Inclusions & Community Services - Health and Wellbeing	ACE VR Ltd.	Evaluation of Visual Disability in a Virtual Reality Environment
Winner	Inclusions & Community Services - Education	Find Solutions AI Limited	4LittleTrees

	Category	Winning Organisation	Product Name
Merit	Cross categories: Start Up	VAR LIVE International Limited	VAR LIVE Shop / VAR BOX
Merit	Cross categories: Research and Development	Hong Kong University of Science and Technology	Pulse of HKUST- A Data-Driven Smart Campus
Merit	Consumer - Media & Entertainment	Marvel Digital Limited	Smart glasses 3D Display
Merit	Consumer – Marketplaces and Retail	HK Decoman Technology Ltd.	One stop renovation platform
Merit	Tertiary Students	Hong Kong University of Science and Technology	Finding Mini
Merit	Tertiary Students	City University of Hong Kong	Prosroid : The Wheelchair Simulator
Merit	Senior Students	Christian Alliance SW Chan Memorial College	A.I.CAME
Merit	Senior Students	Christian Alliance SW Chan Memorial College	Augmented Reality Game for Identifying Early-age School Kids with Dyslexia
Merit	Junior Students	Cheung Sha Wan Catholic Secondary School	BackUp
Merit	Junior Students	Heung To Secondary School (Tseung Kwan O)	Intelligent Minibus and Minibus Station 2.0

As Executive Committee Member of APICTA, the Hong Kong Computer Society (HKCS) led the Hong Kong delegation comprised 26 local ICT award winners including recipients of the Hong Kong ICT Awards, Hong Kong Awards for Industries and The Pan-Pearl River Delta Region IT FYP Competition. With Mr. Victor Lam, JP, Government Chief Information Officer, the Government of the HKSAR and Mr. Ted Suen, President of HKCS as our Honorary Head of Delegation and Head of Delegation respectively, Mr. Stephen Lau, JP, Secretary General (Honorary) of HKCS and Mrs. Agnes Mak, MH, JP, Honorary Advisory of HKCS as our Deputy Heads of Delegation, Hong Kong's triumph once again reaffirmed its standing as a major centre for ICT technology within the Asia Pacific region.



Mr. Ted Suen, President of HKCS, said, “APICTA has been hailed as the Oscars of the ICT industry. The 26 Hong Kong entries come from local enterprises, NGOs and educational institutions; among them, NGOs and education institutions have received subsidies from the Office of the Government Chief Information Officer (OGCIO) to participate in the awards. The Hong Kong Trade Development Council also sponsors a ‘Hong Kong Reception’ networking event for all the APICATA delegates, local officials and industry experts during the awards each year, providing an international platform for Hong Kong to showcase its entries. Support from the Hong Kong SAR Government is much welcome in Hong Kong’s participation in international competitions.”

Ted also remarked, “APICTA 2019 has been held with great success from 18 November to 22, this Friday night, in Halong. I am really delighted that Hong Kong continues to shine on the APICATA stage with this achievement. I convey my warmest congratulations to the best achiever of Hong Kong team this year HKO, the winner of Grand Award of The Hong Kong ICT Awards 2019: Smart Business Award and the Gold Award of “Smart Business (Solution for Business and Public Sector)” organised by HKCS, as well as all of the award winners on behalf of HKCS. Our delegates had to face tough competition vis-à-vis 15 other countries and territories and meet highly demanding judging criteria. Even Merit recipients must attain 95% or more of the Winners’ score to receive the Merit award, so I must say all of the winners are very well-deserved.”

Ted continued, “APICTA serves to promote ICT awareness and stimulate technological innovation in the Asia Pacific region. HKCS has been an Executive Committee Member of this high-profile annual industry event and Hong Kong as one of the member economies since 2001. As the largest and longest-standing IT professional body in Hong Kong with an in-depth understanding of local ICT industry development, HKCS conducts the nominations and co-ordinates the Hong Kong delegation for the awards. The Society also invites different industry experts to provide mentorship to the nominees, so as to best showcase Hong Kong’s technological edge to the judges.”

APICTA 2019 attracted contestants from Australia, Bangladesh, Brunei, China, Indonesia, Macao SAR, Malaysia, Myanmar, Pakistan, Singapore, Sri Lanka, Thailand, Vietnam, Chinese Taipei and Hong Kong SAR. These member economies take turns hosting the annual awards, and the next awards will be hosted by Malaysia.

Mr. Suen explained that with delegates coming from so many different countries and territories across the Asia Pacific, APICATA will continue to provide valuable networking and learning



opportunities for delegates and facilitate collaboration to advance ICT development in their respective communities. Members in the judging panel are appointed from the member economies to ensure a fair and impartial selection process and enhance the credibility of the results.

About the Asia Pacific Information and Communication Technology Alliance Awards (APICTA)

APICTA is an annual flagship event of the ICT industry in the Asia Pacific region. Founded in 2001 by Multimedia Development Corporation in Malaysia, it has become a renowned international award today. APICTA aims to recognise organisations and individuals in the Asia Pacific region who have made a significant contribution to the ICT industry; increase ICT awareness in the community; stimulate ICT innovation; provide opportunities for business matching between IT innovators and investors; and facilitate technology transfer and application.

APICTA is represented by 16 countries and territories across the Asia Pacific region, including: Australia, Bangladesh, Brunei, China, Chinese Taipei, Indonesia, Japan, Hong Kong SAR, Macao SAR, Malaysia, Myanmar, Pakistan, Singapore, Sri Lanka, Thailand and Vietnam. These member economies take turns hosting the annual awards each year, which is won through a bidding process. For more information, please visit www.apicta.org.

Since APICTA was established in 2001, the Hong Kong Computer Society, as the largest and most well-established IT professional association of its kind with an in-depth understanding of local ICT industry development, has been responsible for nominating Hong Kong's ICT talents to participate in the event.

About the Hong Kong Computer Society (HKCS)

Founded in 1970, the Hong Kong Computer Society (HKCS) is a recognised non-profit professional organisation focused on developing Hong Kong's Information Technology (IT) profession and industry. Their members come from a broad spectrum of Hong Kong's IT community, from corporations to like-minded individuals, all coming together to raise the profile and standards of the IT profession and industry. As a well-established IT professional body, the Society is committed to professional and industry development as well as community services to ensure the IT sector continues to make a positive impact on peoples' lives with three main goals, namely, 1) talent cultivation and professional development, 2) industry development and collaboration, and 3) the



effective use of IT in our community. For more details, please visit <http://www.hkcs.org.hk>.

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Appendix 1: Introduction of Hong Kong Winners

附錄一：香港代表隊大獎得主簡介

● APICTA2019 Winner 大獎得主	
Category 類別	Public Sector and Government - Government and Citizen Services 公營機構及政府類別 - 政府及市民服務
Category 類別	Technology - Artificial Intelligence 科技組別 - 人工智能
Organization 得獎者	Hong Kong Observatory 香港天文台
Product 得獎產品	From detection of rain to safeguarding of the community against hazardous weather 從降雨監測到保障社會免受惡劣天氣影響
Description 產品簡介	<p>HKO has developed a nowcast system since late 90s, namely the "Short-range Warning of Intense Rainstorms in Localized Systems" or "SWIRLS", to safeguard the communities against hazardous weather. Nowcast refers to forecasting of weather in the next few hours, primarily on severe weather such as heavy rain, lightning, hail, and thunderstorm-induced gust, which are localised and highly-changeable, thus demanding a high level of precision and timeliness of forecast. Innovatively using observations from weather radar, lightning detection network, rain gauges and other meteorological data as well as adopting new techniques in artificial intelligence, computer weather model and meteorological knowledge, SWIRLS is capable of detecting rainfall and lightning and predicting their location and intensity several hours later. The forecast products from SWIRLS support the issuance of severe weather warnings for the general public. Tailored products from SWIRLS also support the operation of the airport, power company and public facilities. These enables the community's timely and effective preparation and responses to potential hazards that the severe weather may bring and thereby protecting people, facilities and properties.</p> <p>天文台於上世紀九十年代末已發展一套名為小渦旋的臨近預報系統，以保障社會各界免受天氣災害的威脅。臨近預報是未來數小時的天氣預報，主要針對大雨、閃電、冰雹、雷暴帶來的狂風等惡劣天氣，這些天氣現象變化多端且影響範圍極小，因此需要高度精確和及時的預報。小渦旋系統創新地運用各種觀測數據，包括天氣雷達、閃電定位網絡、自動雨量計及其他氣象數據等，以及採用先進技術，包括人工智能、電腦天氣模式和氣象知識等，預報未來數小時雷雨區的地點和強度。小渦旋預報產品支援預報員向公眾發出的惡劣天氣警告，以及機場、電</p>

	力公司和公共設施的運作，讓社會各界可對潛在天氣災害作出及時和有效的準備及應變，從而保障性命、設施和財產。
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<p>● APICTA2019 Winner 大獎得主</p>	
<p>Category 類別</p>	<p>Technology – Big Data Analytics 科技組別 – 大數據分析</p>
<p>Organization 得獎者</p>	<p>Gekko Artificial Intelligence Ltd.</p>
<p>Product 得獎產品</p>	<p>Gekko Graph</p>
<p>Description 產品簡介</p>	<p>Gekko Graph is our proprietary graphical network analytics software product with a built-in proprietary database. It is a visualization software for data analytics, fraud detection, due diligence and investigation. The goal is to find insights hidden in fragments of information (in particular from unstructured format) and boost work productivity.</p> <p>Our graphical network analytics solution is the only one in the market focusing on Hong Kong / China financial entities that track down ownership data, subsidiary data, transactions data and disciplinary actions data. We focus on providing deep and granular level of data as we believe it is critical for finding unique insights.</p> <p>Currently, our services and software solutions are utilized by the regulators in the region as well as law firms, investigation firms and financial institutions.</p> <p>Gekko Graph 是我們的專有圖形網絡分析軟件產品，具有內置的專用數據庫。它是一個用於數據分析、欺詐檢測、盡職審查和調查的視覺化軟件，其目標是洞察隱藏於訊息片段中的含意（尤其是非結構化格式），並提高工作效率。</p> <p>我們的圖形網絡分析解決方案，是市場上唯一專為香港/中國金融機構服務者，可追蹤股份擁有權的數據、子公司數據、交易數據以及紀律處分數據。我們專注於提供深度和粒度級別的數據，我們相信該等數據對於尋求獨特的見解極為重要。</p> <p>目前，我們的服務和軟件解決方案，已為地區性的監管機構、律師事務所、調查</p>

	機構及金融機構所採用。
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● APICTA2019 Winner 大獎得主	
Category 類別	Consumer - Media & Tourism 消費類別 - 媒體及旅遊
Organization 得獎者	VAR LIVE International Limited 維亞科技國際有限公司
Product 得獎產品	VAR LIVE Shop / VAR BOX
Description 產品簡介	<p>From software to hardware development, VAR LIVE produces state of the art Virtual Reality games with in-house creative teams. We have 16 registered IP games, such as VR racing, zombie shooting, adventure puzzle solving, kid's monsters shooting and eSports competition. All of these titles are available online for multiplayer experience. VAR LIVE also develops peripheral hardware to enhance the immersive experience for the players by utilizing our patented vibration and sensory mechanisms. Apart from game development, VAR LIVE also provides business solution. Now it has successfully provided VR training solutions for Taiwan ITRI and government sectors.</p> <p>In 2019, VAR LIVE has developed and launched the world's first VAR BOX, a standalone VR console targeting the trend of eSports online competition around the world. VAR BOX is a machine that can be deployed virtually anywhere allowing players to train and or compete anytime. Furthermore, to facilitate this experience, VAR LIVE has accompanied VAR BOX with a VAR LIVE mobile application to record players statistics. VAR LIVE has incubated an eco system of network in this complete VAR BOX package solution to provide the world with the top tier VR entertainment solution.</p> <p>從遊戲軟件到硬件設計，VAR LIVE 擁有自己創作團隊製作最先進的虛擬現實遊戲。我們擁有 16 個自家設計的專利遊戲，遊戲種類包括 VR 賽車、喪屍射擊、解謎冒險、適合兒童的怪獸射及電子競技比賽，所有遊戲更可透過線上控制達成多人遊戲體驗。硬件方面，VAR LIVE 還自家開發槍枝迴避結構、遊戲情境震動系統等專利技術來增強玩家的身臨其境的體驗。除遊戲開發之外，VAR LIVE 更有企業解決方案服務，提供各類型的訓練體驗，目前已成功為台灣工業技術研究院和政府部門的 VR 培訓提供了業務解決方案。</p>

	<p>在 2019 年，配合全球電子競技在線比賽的趨勢 VAR LIVE 開發並推出了全球首個獨立的 VR 控制台—VAR BOX。VAR BOX 適合在任何地方的安裝，允許玩家隨時進行訓練和連線比賽。此外，為了促進玩家體驗，我們將 VAR BOX 與 VAR LIVE 移動應用程序配合使用，以記錄玩家統計信息、排名及技術分析。VAR LIVE 在完整的 VAR BOX 軟件解決方案中，孕育了一個網絡生態系統，為世界提供了頂級的 VR 娛樂解決方案。</p>
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<p>● APICTA2019 Winner 大獎得主</p>	
<p>Category 類別</p>	<p>Inclusions & Community Services - Health and Wellbeing 社區共融及社會服務類別 - 健康和福祉</p>
<p>Organization 得獎者</p>	<p>ACE VR Ltd. 艾斯數碼有限公司</p>
<p>Product 得獎產品</p>	<p>Evaluation of Visual Disability in a Virtual Reality Environment 以虛擬實境評估視力障礙</p>
<p>Description 產品簡介</p>	<p>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. We have constructed virtual reality (VR) environments in a VR headset simulating day-to-day activities to visualize 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. Our data support that 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.</p> <p>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。本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，以及城市街道上行走。我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及其他殘障或疾病如中風所造成的視力障礙，為病人的及早治</p>

	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。
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● APICTA2019 Winner 大獎得主	
Category 類別	Inclusions & Community Services – Education 社區共融及社會服務類別 - 教育
Organization 得獎者	Find Solutions AI Limited 富成人工智能有限公司
Product 得獎產品	4LittleTrees
Description 產品簡介	<p>4LittleTrees (4LTs) is a unique Ai-Driven Motivation Model with 30 filing patents. By combining Ai with emotional analysis, the platform is capable of facilitating the learning process for students and providing better assistance for teachers. When students learn and interact at the platform installed in a tablet, the front camera will automatically detect the student's facial expression and identify their emotions in 0.1 second while students are doing the exercises. Integrating the data of facial expression with students' eyes movement and learning concentration level by using Big Data, a comprehensive analysis report is then conducted for teachers to understand the learning progress of the students. The ultimate goal is allowing teachers to provide immediate assistance to cater to each student compares to the traditional education system.</p> <p>4LTs 是一款結合人工智能和情緒分析的教學輔助平台。4LTs 結合 AI 人工智能及大數據分析 (Big Data)，設計出一系列個人化數學練習及課程，助同學更有效地了解自己於不同數學範疇的表現。當學生透過教學平台進行互動練習時，平板電腦的前置鏡頭會自動偵測學生的表情，於 0.1 秒內自動辨識學生的情緒，同時分析眼球轉動和學習專注力。藉以上三方面數據作分析，全面了解學生的學習情況。</p>

Appendix II: Introduction of Hong Kong Merits

附錄二：香港代表隊優異獎得主簡介

● APICTA2019 Merit 優異獎得主	
Category 類別	Cross categories: Start Up 跨組別：初創企業
Organization 得獎者	VAR LIVE International Limited 維亞科技國際有限公司
Product 得獎產品	VAR LIVE Shop / VAR BOX
Description 企業簡介	<p>VAR LIVE pioneers in Virtual reality (VR) and (AR) Augmented reality development since 2017. With head quarter in Hong Kong, we are proud to have a seasoned team of hardware and software research and development specialists. VAR LIVE has developed and patented our somatosensory recoil pistols, and vibrating floor sensors and created over 16 VR game titles for all ages. Additionally, VAR LIVE has shops in China, Taiwan, Japan, Philippines, and Malaysia. In April 2019, VAR LIVE has achieve ICT Startup Silver award for Information Communication Technology and Cyberport Incubatee Programme of the Hong Kong government.</p> <p>維亞科技為亞洲領先的虛擬實境(VR) 和擴增實境(AR)開發公司。由 2017 年成立，擁有自家開發團隊，創作虛擬實景遊戲及硬件開發，我們研發的體感震動手槍及震動地板更獲得註冊專利。此外，維亞科技亦有在中國、台灣、日本、菲律賓及馬來西亞等地區開設 23 家特許經營店，店舖網絡遍佈亞洲區。於 2019 月 4 月維亞科技榮獲香港資訊及通訊科技獎資訊科技初創企業軟件及應用服務類別銀獎及數碼港培育計劃培育機構。</p>

● APICTA2019 Merit 優異獎得主	
Category 類別	Cross categories: Research and Development 跨組別：研究及發展
Organization 得獎者	Hong Kong University of Science and Technology 香港科技大學
Product 得獎產品	Pulse of HKUST - A Data-Driven Smart Campus Pulse of HKUST - 數據驅動智慧校園
Description	Pulse of HKUST aims to promote a smart campus through the combined power of IoT

<p>產品簡介</p>	<p>devices, big data analytics and visualization. It serves as a data-driven platform to palpate the “pulse” of the campus community such as human crowds, facility availability, and events. The platform automatically senses real-time crowds based on Wi-Fi access logs and CCTV videos, and visualizes crowd distribution and movement appealingly. It further applies big data analytics to derive useful information such as waiting time at bus stops, and utilizes AI techniques to predict crowds with about 91% accuracy. Finally, it communicates those data to the public on various platforms including large-screen displays, Kiosk machines, and mobile websites.</p> <p>This project allows both the campus community and visitors to share the benefits of a smart campus. By analyzing and communicating campus big data, it provides a data-driven solution for smart decision-making on mobility and facility management, promoting a better campus. The generated data could be valuable resources for further studies on crowd behavior, transportation plan, and facility management, offering references for smart city development.</p> <p>Pulse of HKUST 旨在通過物聯網設備、大數據、人工智能和可視化技術推動智能校園。</p> <p>它作為一個數據驅動的平台，感知校園社區的實時“脈搏”，例如人群流向、設施狀況、擁擠程度及活動。它提供了一個由數據驅動和基於證據的解決方案，以提供在移動性，設施管理和事件規劃上更明智的決策。因此，它促進了更好的校園體驗和生活質量，以及更強的歸屬感。</p>
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<p>● APICTA2019 Merit 優異獎得主</p>	
<p>Category 類別</p>	<p>Consumer - Media & Entertainment 消費類別 - 媒體及娛樂</p>
<p>Organization 得獎者</p>	<p>Marvel Digital Limited 萬維數碼有限公司</p>
<p>Product 得獎產品</p>	<p>Smart glasses 3D Display 智 3D 顯示屏</p>
<p>Description 產品簡介</p>	<p>MDL delivers a comprehensive glasses-free 3D solution, from 3D content creation and conversion, glasses-free 3D video wall and displays for industrial applications, to 4K3D mobile devices and other consumer products. Its propriety content generation</p>

	<p>system combines both software automation and professional 3D artist's analysis which maximizes the efficiency and effectiveness, and the result is a high precision lifelike visualization.</p> <p>Smart glasses 3D Display</p> <ul style="list-style-type: none"> - Sizes from 28" to 85" - Latest Ultra-High Definition (4K) 3D Panel - Advanced Lenticular 3D Technology with 140 degree viewing angel - Built-in 4K3D conversion engine - Cloud-based CMS Platform, easy for update content - Suitable for use in shopping mall, hotel, showroom, exhibition center <p>萬維數碼提供全面的 3D 技術解決方案，從 3D 內容創建及轉換，3D 拼接牆及顯示屏，到裸眼 3D 消費類產品。從硬件及軟件全方面提供更有效率、更專業的 3D 內容自動化轉換的技術，更逼真呈現 3D 內容。</p> <p>智 3D 顯示屏</p> <ul style="list-style-type: none"> - 尺寸由 28 吋到 85 吋不等 - 採用最新的 4K UHD 3D 屏幕 - 配備最新光柵技術及 140 度超廣闊 3D 可視角度 - 內置 4K3D 轉換裝置 - 雲端 CMS 內容管理系統，方便上傳內容 - 適合各品牌及企業於商場、戲院、酒店和陳列室等地點作廣告宣傳用途
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<p>● APICTA2019 Merit 優異獎得主</p>	
<p>Category 類別</p>	<p>Consumer – Marketplaces and Retail 消費類別 - 電商市集及零售</p>
<p>Organization 得獎者</p>	<p>HK Decoman Technology Ltd. 裝修佬科技有限公司</p>
<p>Product 得獎產品</p>	<p>One stop renovation platform 一站式裝修平台</p>
<p>Description 產品簡介</p>	<p>HKDECOMAN is a fast-growing one-stop O2O renovation platform, provides an integrated solution to home owners with different renovation needs. Project Department provides hassle-free A.I. smart-matching and consultancy service to help</p>

users find the most suitable contractors and monitor the renovation process; Online Mall delivers an O2O materials purchase experience; Academy departs renovation knowledge to increase the industry's transparency. Through these business solutions, HKDECOMAN creates an ecosystem in which home owners, renovation companies and material suppliers can synergize, in turn bringing huge traction, traffic, and multiple revenue streams that sustain our advantage and solidify our business model.

With HKDECOMAN, home owners no longer need to rely on risky and primitive ways to ascertain a company's credibility and quality of service, nor do they need to worry about mastering a wide range of knowledge for a one-time project. HKDECOMAN does it all.

The holistic solution also yields big data which help our intelligent matching system evolve, assisting users to locate the most suitable company with technology, and adding tremendous value & convenience to the industry.

「裝修佬」設立專家顧問團，建立網上知識庫，在線上提供完善的裝修、維修知識庫以及 24 小時答問服務，現已累積過千條影片、2,500 篇文章，並收錄過千條問題。

「裝修佬」透過自家完成項目及合作伙伴所提供之數據，分析超過過萬個完工單位的各項細節，戶主只需提供基本裝修資料及要求，「裝修佬」便能準確預測其裝修成本，誤差低於 10%。

香港人生活節奏急速繁忙，未必可花太多時間處理及搜羅裝修相關資訊及產品。透過「裝修佬」的網上商城，戶主便可快速瀏覽及選購合適產品及裝修物料。而於我們平台配對成功後的戶主亦可同時用優惠價購買裝修建材用品。

另外，「裝修佬」更增設教育平台「裝修防伏學院」，並籌組各個專業範疇的專家成立「學院顧問團」，舉辦多個裝修、維修相關課程及地區講座，讓戶主及師傅都能有效率地獲得所需知識情報，包涵線上線下教學課程，協助戶主清楚了解整個裝修流程及個人目標與期望，令裝修過程得以順利完成。

Category 類別	Tertiary Students 學生類別 - 專上學生
Organization 得獎者	Hong Kong University of Science and Technology 香港科技大學
Product 得獎產品	Finding Mini 小巴到哪兒
Description 產品簡介	<p>SOCIF positions itself as an IoT solution provider in the field of smart mobility. Our Products include IoT solutions such as fleet management system, seat reservation system, in-vehicle seat vacancy detection system and smart seatbelt for safety travelling.</p> <p>For the entry product, “Finding Mini” is an Estimated Time of Arrival (ETA) system for vehicles. Our team was invited by our university to deploy the ETA system for around 50 Public Green Minibus serving the Campus. We developed the mobile app for HKUST community and the residents living nearby, showing the live arrival schedule of the arriving minibus for each minibus station. We also developed a set of fleet management system for the partnered minibus operators to enhance the drivers’ performance and operation efficiency.</p> <p>Launching the app in 2 weeks, it already attracted 6.3k+ users for downloads, which accounted for more than one-third of the university population. The iOS version is rated at 4.8/5 (23 ratings) and the Android version is rated at 4.7/5 (34 ratings). And the system is highly referred by the public minibus industry to the government departments.</p> <p>SOCIF 定位為智慧出行領域中的物聯網解決方案供應商。我們的產品包括以物聯網技術為主的車隊管理系統，座位預定系統，剩餘座位偵測系統和智能安全帶。</p> <p>對於是次參賽的產品，”Finding Mini” 是為車輛所開發的實時到站預報（ETA）系統。受香港科技大學邀請，我們團隊為服務於校園的約 50 輛公共綠色小巴安裝 ETA 系統。我們為科大師生和附近居民開發了手機應用程式，顯示了每輛小巴的實時到達時間。我們還為合作的小巴運營商開發了一套車隊管理系統，以提高司機的駕駛表現和運營效率。</p> <p>在科大兩週內的宣傳推廣，該手機程式已吸引了 6.3k 以上的用戶下載，約佔大</p>

	學人口的三分之一以上。iOS 版本的評分為 4.8 / 5 (23 個評分)，而 Android 版本的評分為 4.7 / 5 (34 個評分)。同時，該套系統更獲相關綠色小巴營運商高度推薦予政府運輸部門。
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● APICTA2019 Merit 優異獎得主	
Category 類別	Tertiary Students 學生類別 - 專上學生
Organization 得獎者	City University of Hong Kong 香港城市大學
Product 得獎產品	Prosroid : The Wheelchair Simulator Prosroid : 電動輪椅駕駛訓練模擬器
Description 產品簡介	<p>Prosroid aims to provide realistic wheelchair training experience and professional driving performance reviews for rehabilitation. In Prosroid, user can experience how driving a wheelchair at outdoor likes in a free open world and scenarios of Hong Kong-like environment, by using a wheelchair joystick. Users can review their driving behavior after they have finished one scenario, therefore it is a great solution to help the user and the medical staffs to discuss together for improving driving technique, and building confidence before users go on a real wheelchair training. Besides, to enhance the immersive feelings in training, Prosroid has implemented two new technologies for users: CAVE and VR, so that the user can be trained inside a virtual reality, in order to reduce the incompatible feelings between virtual training and real training at outdoor.</p> <p>Prosroid 致力於為復康中心提供真實的電動輪椅駕駛訓練及專業的駕駛表現評估。</p> <p>在 Prosroid 中，受訓者可以透過使用輪椅的控制器，去體驗如何在一些以香港實際環境作藍本製作的自由世界及情景中駕駛。受訓者亦可以在完成情景後，與醫護人員共同探討如何改進駕駛技巧，從而在進行真正輪椅訓練前，樹立更大的自信心。除此之外，為了提升更真實的沉浸式體驗及降低虛擬與真正輪椅訓練之間帶來的違和感，Prosroid 能夠利用 CAVE 及 VR 技術，為受訓者提供一個虛擬現實環境作訓練用途。</p>

● APICTA2019 Merit 優異獎得主	
Category	Senior Students

類別	學生類別 - 高中生
Organization 得獎者	Christian Alliance SW Chan Memorial College 宣道會陳朱素華紀念中學
Product 得獎產品	A.I.CAMe 聽途
Description 產品簡介	<p>A.I.CAMe is a low-cost & portable smart device that is designed for visually impaired people to travel independently, by means of the technology application of artificial intelligence, App on mobile and Bluetooth or mobile data transmission. It is able to analyze the environmental conditions and inform the users, so they could understand about the surrounding situation. Meanwhile, it is equipped with GPS indoor and outdoor navigation, so users can use it in any situation. The cost is about HKD320 (USD 40), it can be installed directly on users' cane without the need of purchasing additional hardware. This invention is believed to be an ideal tool for the visually impaired people, so to solve the traveling problem of them and assist them to explore the city independently.</p> <p>Python is the language used for micro-processors and Thunkable is used for App development. Also, Microsoft Computer Vision is applied to analyze the environment and Bluetooth bone conduction headphone is used to inform the visually impaired people about the result.</p> <p>Besides, GPS navigation applies the Google Map API and WiFi for positioning and navigation.</p> <p>全球視障人士數量約有 3,800 萬人，本港數目約為 19 萬人，綜合全球的數量及本地統計數字，可見視障人士的數目龐大；反映他們對輔助工具的需求亦越來越大，但現時普遍的輔助工具未能全面幫助他們獨立出行，而較全面的智能化輔助工具也因價格昂貴而未能普及使用。輔助工具的應用及科技成熟度，直接影響視障人士的出行問題，而問題一直存在且未有工具能有效解決。</p> <p>A.I.CAMe 是為協助視障人士獨立出行而設的低成本可攜式智能裝置，透過人工智能(圖像識別)、手機程式和藍牙或流動數據傳輸技術等各方面的技術應用，它能分析現場環境狀況，告知使用者周圍情況，讓視障人士能了解實況。同時它具有 GPS 室內外導航，使視障人士在任何情況都能使用裝置；成本約為 HKD\$350。它可以直接安裝在視障人士自己的拐杖上，不用額外購買硬件。發</p>

	<p>明品的功能實用及成本低，相信將成爲幫助視障人士出行的理想工具。希望裝置可解決視障人士出行不便的問題，協助他們獨立探索城市。</p> <p>發明品會透過 python 和 thinkable 去編寫微型處理器和手機軟件，方便使用者使用；其次會利用 Microsoft computer vision 去分析環境，並透過藍牙骨傳導耳機告知視障人士環境資訊。而 GPS 導航就會利用 Google Map API 及 WiFi 作定位系統導航，讓使用者不會迷失方向。</p>
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● APICTA2019 Merit 優異獎得主	
Category 類別	Senior Students 學生類別 - 高中生
Organization 得獎者	Christian Alliance SW Chan Memorial College 宣道會陳朱素華紀念中學
Product 得獎產品	Augmented Reality Game for Identifying Early-age School Kids with Dyslexia AR 愛心遊戲識別學前讀寫障礙學童
Description 產品簡介	<p>The project aims to focus on the “Mirror Wording” problem, one of the characteristics in Dyslexia, and provide an evaluation on children studying in the lower grade of primary school, which can be widely adopted in mobile devices, through a gamified and interactive manner.</p> <p>There are over 20,000 children suffered from Dyslexia in Hong Kong. According to the record, most of the Dyslexia cases are found out while they are studying in grade 3. Moreover, by searching the keyword “Dyslexia Test” in App Store (iOS system) and Google Play(Android System), the majority of Apps are found that are designed for Dyslexic students who are older than 8. Above information mean that the current evaluation approaches cannot always find out those problematic children from the lower grade of primary school.</p> <p>The early identification of Dyslexia can improve the effectiveness of the treatment. The technologies of 3D printing, Augmented Reality and gamification are applied to prepare our testing materials and digital solution. With the capability of early identification, parents and school can help their children during the golden treatment period.</p>

	<p>此項目主要針對讀寫障礙的特徵——鏡字問題着手，去提供一個適合低年級學童的評測方案。這個透過遊戲化的互動方案，能夠廣泛適用於不同的流動裝置。</p> <p>在香港有超過二萬名學童受讀寫障礙所困擾。根據記錄，大部分讀寫障礙個案是於小三後才被發現的；此外，在日常使用到的安卓及蘋果系統的應用程式發布平台上搜索”Dyslexia Test”，大部分程式是適用於 8 歲或以上的讀寫障礙學童；以上資訊代表着現行的評測途徑，不能完全地找出受問題困擾的低年級學童。</p> <p>此數位化方案是透過 3D 打印、擴增實境及遊戲化技術組合而成。擁有及早辨別能力的方案，可協助家長及學校找出並把握黃金治療時間進行治療，提高成效。</p>
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● APICTA2019 Merit 優異獎得主	
Category 類別	Junior Students 學生類別 - 小學及初中生
Organization 得獎者	Cheung Sha Wan Catholic Secondary School 長沙灣天主教英文中學
Product 得獎產品	BackUp 脊椎健康衣
Description 產品簡介	<p>Founded by 14-year-old Godwin Wong, BackUp allows users to know more about their spinal health condition and to take actions to improve it. Through a smart T-shirt, the user’s spinal motion is tracked and data is collected for further analyzation and actions. For instance, a vibration signal is triggered once an unhealthy spinal posture is detected to inform the user that their spine is not in a healthy posture and should be corrected.</p> <p>BackUp is designed for people who are concerned about their spinal health issues. For instance, students or office workers have to sit for a long time which could lead to spinal health issues such as Kyphosis. Besides, workers in construction and other labour-intensive industries are exposed to a higher risk of spinal health issues. By using BackUp, users and their doctors can monitor their spinal health condition and to take actions to improve it if necessary. Data collected can also be further analysed to advance spinal health research and development.</p> <p>BackUp was awarded in the Hong Kong ICT Awards 2019 and the WI Cheung Scholarship, and has received media attention.</p>

	<p>BackUp 由 14 歲的黃耀烽創立，創立目標是希望用戶透過脊椎監察裝置了解其脊椎健康狀況，並採取行動來改善脊椎健康。通過智能衣服，可以監察用戶的脊椎活動情況，並收集數據以作進一步的分析。例如，一旦檢測到不健康的脊椎姿勢，裝置就會觸發振動信號，以通知用戶脊椎正處於不健康姿勢，應予以糾正。</p> <p>BackUp 專為關心脊椎健康問題的人們而設計，例如學生或辦公室工作人員，必須長時間坐著，這可能導致脊椎出現健康問題如駝背。此外，建築業和其他勞動密集型行業的工人，亦面臨著高風險的脊椎健康問題。使用 BackUp 令用戶及其醫生可以了解其脊椎健康狀況，並在必要時採取行動以改善脊椎健康狀況。收集的數據也可以進一步分析，以促進脊椎健康的醫學研究和開發。</p> <p>BackUp 獲得了 2019 年香港資訊及通訊科技獎和張永賢律師奮進獎學金，並受到了媒體關注。</p>
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<p>● APICTA2019 Merit 優異獎得主</p>	
<p>Category 類別</p>	<p>Junior Students 學生類別 - 小學及初中生</p>
<p>Organization 得獎者</p>	<p>Heung To Secondary School (Tseung Kwan O) 將軍澳香島中學</p>
<p>Product 得獎產品</p>	<p>Intelligent Minibus and Minibus Station 2.0 智能小巴系統 2.0</p>
<p>Description 產品簡介</p>	<p>In Hong Kong, many passengers find it difficult to get on minibuses at the intermediate stations in the franchised minibuses routes. Also, no facilities are available in the stations for blind people to take the minibus.</p> <p>To solve the problems, we design a product called Intelligent Minibus and Minibus Station. The minibus can sense the number of people waiting for the minibus and the minibus staff can carry out the minibus reallocation work based on this information. The number of remaining seats in the coming minibus can be displayed in the station for reference by passengers. The data (number of passengers taking minibus) will be transmitted to the centralized database for data analysis and minibus reallocation by minibus agents. Devices to assist the blind to get on the minibus are available for blind people.</p>

The merits of the system are as follows:

- The problem that passengers fail to get on the minibus can be solved effectively
- Data analysis function can promote the operational efficiency of minibus
- Blind people will find it convenient to travel by minibus

公共小巴只有 16 座位，而一般專營小巴路線往往有多個中途站，不少乘客均曾遇到在中途站難以上小巴的問題，而且現時的小巴士沒有任何措施支援視障人士。

因此我們製作智能小巴系統模型，供小巴承辦商參考，並改善小巴和小巴士的設計，讓大眾能獲得更大的效益。這系統由兩部分組成，包括：

- 智能小巴
- 智能小巴士

智能小巴能偵測剩餘座位數目，並顯示在小巴上，讓候車人士得知小巴剩餘座位數目，並預測能否登上即將到站的小巴。同時它運用記憶卡記錄乘客人數，並把數據即時傳回中央資料庫(Thingspeak 雲端網站)，供小巴承辦商分析數據(包括調配車隊數目、決定繁忙與非繁忙時段的車務調整)

智能小巴士能偵測等候小巴人數，讓小巴承辦商能實時知道中途站的候車人數，以適時進行車務調配，並把相關數據傳回資料庫作數據分析；它提供語音功能，讓乘客和視障人士知道小巴行走的路線、即將到站小巴剩餘座位數目和是否有小巴在附近。此外，乘客和視障人士能以顯示燈方式通知司機，有乘客正在等候小巴，避免小巴「飛站」；「藍牙」通訊方式能讓視障人士知道自己是否身處小巴士；「擴增實境 AR」技術能讓遊客查詢小巴途經的地方，從而增加遊客乘坐小巴的比率。

我們期望這意念可達致三個效果：

- 提供高效能交通予長者，鼓勵他們外出與其他長者聯繫，從而建立社區關懷網絡
- 能提供渠道，讓視障人士不再懼怕乘坐交通工具
- 照顧乘客，特別是視障人士的需要，讓他們有更好的生活素質

