

Content 目錄

Background	背景	4
Message from President	會長獻辭	5
Message from Chairman of Organising Committee	籌委會主席獻辭	6
Message from Chairman of Final Judging Panel	評審委員會主席獻辭	7
Hong Kong ICT Awards 2021: Smart Living Award Final Judging Panel 2021 香港資訊及通訊科技獎：智慧生活獎評審委員會		8
Hong Kong ICT Awards 2021: Smart Living Grand Award 2021 香港資訊及通訊科技獎：智慧生活大獎		
Curie Ltd 居安有限公司	C-Polar Air Filter	10
Hong Kong ICT Awards 2021: Smart Living (Smart Healthcare) Award 2021 香港資訊及通訊科技獎：智慧生活（智慧醫療）獎		
Gold Award 金獎		
Curie Ltd 居安有限公司	C-Polar Air Filter	10
Silver Award 銀獎		
Filix Medtech Limited 斐歷醫藥科技有限公司	Herbal ID (Chinese Medicine Products Tracing and Verification Platform) 中藥產品溯源及驗證平台	12
Bronze Award 銅獎		
Robocore Technology Limited 博歌科技有限公司	Temi Robot Temi 機械人	13
Certificate of Merit 優異證書		
The Chinese University of Hong Kong 香港中文大學	AR-Home & AR-Centre Rehab 智能家居及中心 AR 復康指導訓練	14

Hong Kong ICT Awards 2021: Smart Living (Smart Home) Award

2021 香港資訊及通訊科技獎：智慧生活（智能家居）獎

Gold Award 金獎

Hong Kong Productivity Council
香港生產力促進局

kNOw Touch
kNOw Touch 無觸按鈕

15

Silver Award 銀獎

Hong Kong Applied Science and
Technology Research Institute Company Limited
香港應用科技研究院有限公司

Power supply system
for carbon neutral building
碳中和屋宇供電系統

16

Bronze Award 銅獎

LR IOT LIMITED
雄宇科技有限公司

UV-C VentGuard
智能通風管淨化器

17

Hong Kong ICT Awards 2021: Smart Living (Smart Lifestyle) Award

2021 香港資訊及通訊科技獎：智慧生活（生活時尚）獎

Gold Award 金獎

Digital Oasis Ltd

VisualSonic

18

Silver Award 銀獎

Kamakura Foods Limited
株式會社鎌倉食品有限公司

Hot-Chain Bento Machine Platform
熱鏈智能便當機平台

19

Bronze Award 銅獎

Solos Technology Limited
所樂思科技有限公司

Solos Smartglasses
Solos 智能眼鏡

20

Certificate of Merit 優異證書

Sport Artificial Intelligence Laboratory,
Department of Electrical and Electronic Engineering,
The University of Hong Kong /
Hong Kong Univisual Intelligent Technology Limited
香港大學電機電子工程系運動人工智能實驗室 /
獨聚慧眼科技有限公司

Smart Swimming Pool
智能游泳池

21

Introduction of Leading Organiser

籌辦機構簡介

22

Acknowledgement

鳴謝

23

Smart Living Award 智慧生活獎



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

- To recognise outstanding products and solutions that promote and facilitate a smart mode of enjoyable and convenient living through capitalising on ICT advancements
- To promote greater use of ICT in the area of promoting smart living and lifestyle in the community
- To encourage local original and creative ICT development for betterment of our life
- To educate the community about the importance of ICT in their daily lives
- 表彰傑出的資訊及通訊科技研發，以推動及促進優質的智慧生活。
- 鼓勵更廣泛的資訊科技應用，以促進社區智慧生活及生活質素。
- 鼓勵更多具創意的軟件發展，以提升生活質素。
- 教育社會大眾資訊科技於生活上的重要性。

Message from President 會長獻辭



Mr Alex CHUNG
President
Hong Kong Information Technology Federation

鍾孝揚 先生
香港資訊科技商會會長



Hong Kong Information Technology Federation (HKITF) is proud to be the leading organiser for the 13th year. On behalf of HKITF, I would like to congratulate all our award winners of Hong Kong ICT Awards 2021: Smart Living Award for their achievements and inspirations!

Today we are living with the pandemic. The world after COVID-19 must be more inclusive, resilient, and sustainable. HKITF dedicated to embrace innovation and technology to promote high quality of smart living environment – “Smart Home”, “Smart Healthcare” and “Smart Lifestyle”. We are thrilled to see all the innovative ideas and the integration of everyday technology by the award contestants that they had brought to creative life.

As the leading organiser of Smart Living Award, I would like to express my heartiest gratitude to the Judging Panel and Organising Committee for their invaluable contribution and professional support.

Please join me in congratulating all our award winners, and wish them every success in their future endeavours!

很榮幸香港資訊科技商會第十三次主辦香港資訊及通訊科技獎：「智慧生活獎」。我謹代表香港資訊科技商會祝賀2021年「智慧生活獎」的所有得獎者，以及他們所取得的成就和創意啟發！

今天，我們生活於疫情下的新常態，相信將來社會必需要更具備包容性、靈活性和可持續性。香港資訊科技商會致力為創意生活帶來更創新的想法，並融合於科技領域上，相信這些創新科技定能活用於“智能家居”、“智慧醫療”和“時尚生活”當中並推廣高品質的智能生活。

作為「智慧生活獎」主要籌辦機構，我衷心感謝評審委員會和籌委會的寶貴貢獻和專業支持。

讓我們再次祝賀所有得獎者，並祝願他們繼續努力，取得更大的成就！

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



Mr Francis FONG
Honorary President
Hong Kong Information Technology Federation

方保僑 先生
香港資訊科技商會榮譽會長



I am honored to be the Chairperson of the Organising Committee of the Smart Living Award under Hong Kong ICT Awards for the fourth consecutive year. In year 2020 the award was disrupted due to COVID-19, but fortunately, the pandemic is eased, with stringent epidemic prevention measures, so all the selection interviews and judging basically has been resumed to normal. Taking this opportunity, I would like to express my sincere gratitude to all the judges and assessors for their time and invaluable input they have contributed to the Awards. This is not an easy task to select the winners from so many excellent applications that have been received. Also I would also like to thank all members of the Organising Committee who have dedicated so 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 have both enhanced people's lives with ICT technologies and also strengthened a high level of innovativeness and technological expertise that are all 'Made in Hong Kong.' And among Hong Kong's ICT talents, their constant pursuit of creative and better solutions has fulfilled business and social needs comprehensively. All these are critical success factors that foster the exploitation of technology in our local ICT industry during the digital era.

May I also wish all the winners enormous success in the coming years!

我很榮幸連續第四年獲委任為香港資訊及通訊科技獎：智慧生活獎籌委會主席。2020年因受新型冠狀病毒疫情的影響，活動曾一度受阻。幸好今年疫情放緩，配合嚴謹的防疫措施，評審委員可與參賽者進行甄選面試。藉此機會，我衷心感謝各評審委員的支持，感謝他們獻出寶貴的時間和專業的評審意見。今屆參賽機構十分踴躍，卧虎藏龍，要為眾多傑出的參賽項目作出評審，著實不易。

大家可以透過場刊，探索驚喜的產品和應用方案，從而感受每個獲勝團隊的努力和熱誠。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，藉此鼓勵業界精英不斷追求創新和卓越，更具創意的方案，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
Director
Television Broadcasts Ltd.

盧永仁 博士，JP
電視廣播有限公司 董事



Congratulations to all winners of the Hong Kong ICT Awards 2021: 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 2021 香港資訊及通訊科技獎：智慧生活獎的得獎者！今年非常榮幸成為評審委員會主席。

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

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



Chairman (Third on Front Row)

主席 (前排左三)

Dr William LO, JP

Director
Television Broadcasts Ltd

盧永仁 博士，JP

電視廣播有限公司
董事

Panel Members (From Left on Front Row)

委員 (前排左起)

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

Ms NG Mei-mei

Managing Director
Oxford University Press (China) Ltd.

吳薇薇 女士

牛津大學出版社(中國)有限公司
董事總經理

Dr William YU

Chief Executive Officer
World Green Organisation

余遠騁 博士

世界綠色組織
行政總裁

Mr Rico CHAN

VP & Head of APAC Sales, Yahoo
Verizon Media

陳啟滔 先生

Verizon Media
雅虎副總裁及亞太區銷售董事總經理

Mr Ricky CHOI

Senior Manager, Smart Living
Hong Kong Cyberport Management Co Ltd

蔡偉傑 先生

香港數碼港管理有限公司
智慧生活高級經理

Panel Members (From Left on Back Row)

委員 (後排左起)

Mr Edmond LAI

Chief Digital Officer
Hong Kong Productivity Council

黎少斌 先生

香港生產力促進局
首席數碼總監

Mr Ivan SO

Founder
Zizsoft Limited

蘇子賢 先生

即時軟件有限公司
創辦人

Mr Johnny WONG

Chief Executive Officer
Hotmob Ltd.

黃國明 先生

Hotmob Ltd
行政總裁

Dr Ken FONG

Adjunct Professor
Hong Kong Polytechnic University

方健僑 博士

香港理工大學
兼任教授

Mr Fritz CHIU

Financial Controller
Data Exchange Ltd.

招亮輝 先生

Data Exchange Ltd.
財務總監

Mr Argon HO

Managing Director, Greater China
Check Point Software Technologies Ltd.

何偉國 先生

Check Point Software Technologies Ltd.
大中華區董事總經理

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

Curie Ltd
居安有限公司



C-Polar Air Filter

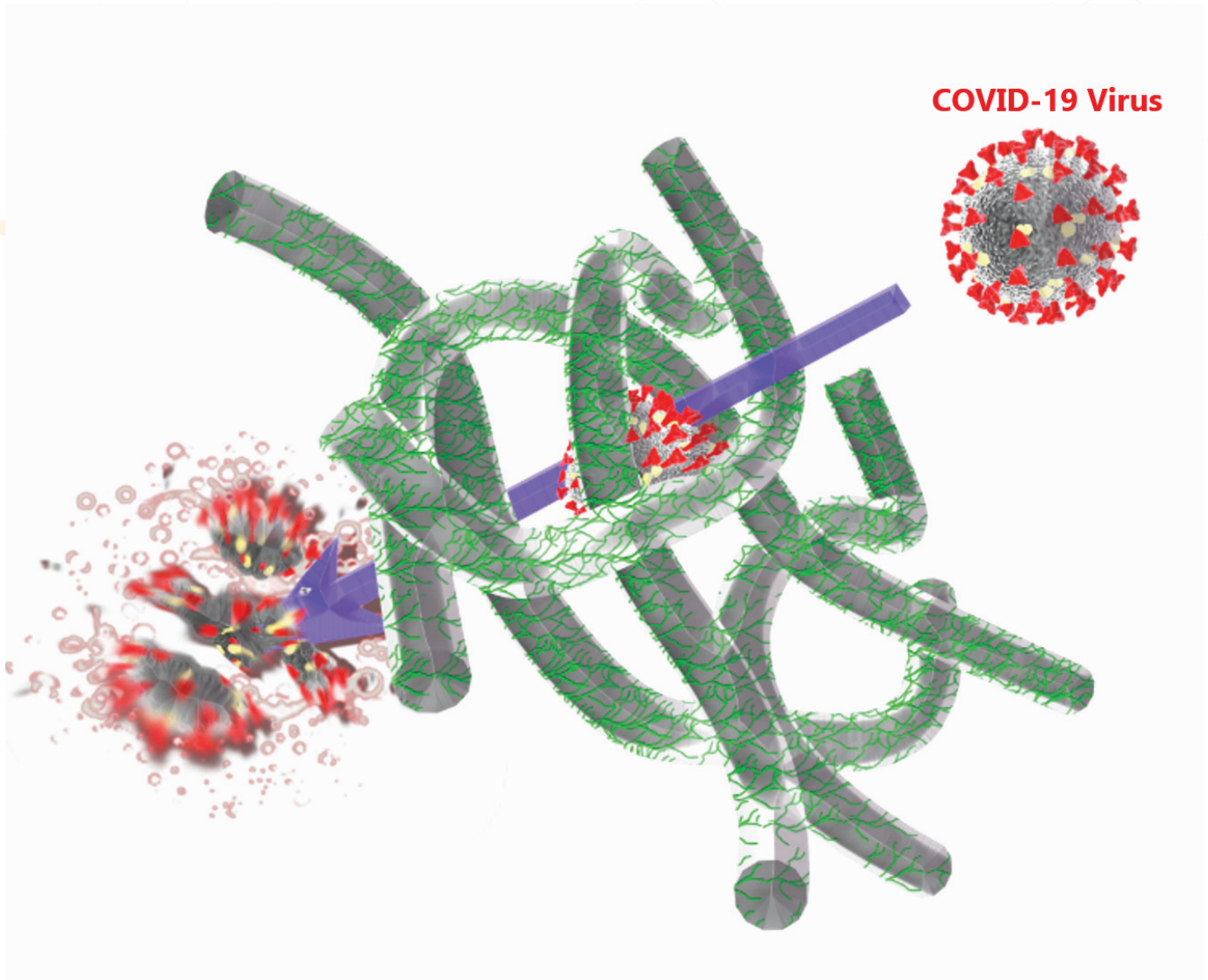
C-POLAR is the world's first electroceutical application in air filtration with patents in Hong Kong and the United States. C-POLAR was founded in Hong Kong in 2020, aiming to minimize the transmission of COVID-19 and future viruses. Bringing public health protection to the new standard.

Our self-developed technology quantifying the surface charge density of EM wave enabled our team using IoT micro-control process to precisely develop C-Polar filter and fabric to deploy in various applications; such as Commercial Building Air Filter and FFP3/N99 Mask; to arrest, inactivate and eliminate 99.9% of viruses (including COVID-19) and bacteria within 5 minutes.

C-Polar Air Filter

C-Polar 發明了世界上首個應用於空氣過濾上的電藥學應用，並已獲得了美國及香港專利。C-Polar 於 2020 年在香港成立，專注於減低新冠病毒以及未來病毒的傳播，將公共衛生提升到全新的水平。

我們自行開發的表面密度電荷技術，使 C-Polar 團隊能通過 IoT 微量控制去開發各種應用，例如空氣過濾網、FFP3/N99 口罩、及其它應用，以達到在 5 分鐘之內，高效截殺 99.9% 病毒 (包括新冠病毒) 及細菌。



Comments from Judging Panel 評審委員會評語

The innovative concept of the C-Polar is a very impressive breakthrough. It uses Polarity to tackle the negative charge property of viruses and bacteria to achieve arresting and destroying them in fast air flow, including COVID-19 virus in short contact time (within 5 minutes). They make good use of information technology to make the product quality more mature and stable. The data they obtain is also conducive to the development of similar projects. As the mechanism of C-POLAR is independent from external energy, chemical consumption and toxicity, it is harmless to the human body. With its cost competitiveness, easy deployment and scientific breakthrough, C-POLAR can protect people from viruses and bacteria to a greater extent. It is expected that this breakthrough innovation can generate great interests from various parties.

C-Polar的創新突破令人印象深刻。它利用極性來對付擁有負電荷特性的病毒和細菌，可於快速氣流中逮捕和破壞它們，更可在短至5分鐘的空氣接觸時間內消滅COVID-19病毒。發明者充分利用資訊科技使產品質量更趨成熟穩定，他們所取得的數據亦有利同類項目的發展。由於C-Polar Air Filter無需依賴外在能源亦能獨立運作、不會產生化學品消耗、和無毒性，對人體無害。憑藉其高成本效益、易於部署和科技性的突破，能為人類健康提供更大的保障，免受病毒和細菌的侵害。預期這一突破性的創新發明能夠引起各界高度關注。

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

Filix Medtech Limited
斐歷醫藥科技有限公司



Herbal ID (Chinese Medicine Products Tracing and Verification Platform)

Filix Medtech Limited is a startup to provide a Chinese Medicines and related Health Supplement Products Supply Chain platform engaging Distributed Ledger Technology (DLT) for product traceability and mobile Near-Infrared (NIR) Spectroscopy technology with Computer Vision (VIS) and advanced data analytics to facilitate on-spot verification and visualisation of product quality. We are working on a B2B model within Hong Kong initially and will further develop the B2B2C market. By building up an ecosystem for health conscious consumers, we will then target to explore the Greater Bay Area and Asia Chinese Medicine Products market.

Comments from Judging Panel 評審委員會評語

Herbal ID brings promising influence to the Traditional Chinese Medicines industry. It engages Enterprise grade Distributed Ledger Technology (DLT) for product traceability in various stages of the supply chain with mobile Near-Infrared (NIR) spectroscopy technology as well as advanced data analytics to facilitate on-spot verification of Chinese Medicines products. This enables the authenticity identification of Chinese Medicines products at retail/customer level in an affordable manner. In brief, the solution ensures the safety of Chinese Medicine products, gains customer trust and brings value to the Traditional Chinese Medicines supply chain.

中藥產品溯源及驗證平台

斐歷醫藥科技致力籌建一個基於區塊鏈/分散賬 (DLT) 技術的中藥及相關保健產品的溯源及驗證平台。我們的項目引入了流動近紅外光譜 (NIR) 檢測，電腦視覺 (VIS) 辨識及先進數據分析等技術，令到中藥產品的質量驗證可以在零售消費者層面以在可負擔的成本下實現。初期我們的目標是在香港 B2B 為主的藥廠/批發商市場，繼而擴展開發 B2B2C 零售/消費者市場。目標是建立好一個以注重健康消費者為主導的生態圈，再發展大灣區以至亞洲的中藥產品市場。

中藥產品溯源及驗證平台為中藥行業打造新願景。它採用企業級區塊鏈/分散賬技術 (DLT) 為中藥產品的供應鏈各生產階段提供產品溯源資訊，並通過流動近紅外光譜 (NIR) 和先進的數據分析技術以實現中藥產品的現場驗證。這使零售/客戶層面可以經濟實惠的方式識別中藥產品的真偽性。總括而言，該解決方案確保了中藥產品的安全性，贏得客戶的信任，亦為中藥供應鏈帶來增值。

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

**Robocore
Technology Limited
博歌科技有限公司**



Temi Robot

Temi is the cost-effective robot that delivers ground breaking engagement solutions for business or personal needs. Utilizing Temi's proprietary autonomous navigation, AI technologies and the open Android SDK, create unlimited possibility for different solutions, such as create game, chatbot, interface, even connect to different systems.

With Temi indoor navigation system, create various solution by changing a static device to mobile, such as IOT sensors, Octopus system, payment system, IAQ sensor and more.

Comments from Judging Panel 評審委員會評語

Temi robot provides an open software development kit (SDK) platform, which allows developers to create unlimited possibilities. Featuring state-of-the-art AI, and a system of sensors and cameras, the robot can recognise and follow when requested, save preset locations, and navigate flawlessly in the most dynamic environment. Given its compatible and scalable features, it is expected that the robot will be welcomed by the Startups and the market potential will grow in future.

Temi 機械人

Temi 是一個具有開創性的高性價比機器人，可滿足業務或個人需求的解決方案。利用 temi 專有的自主導航，人工智能技術及使用開放的 Android SDK，為不同的解決方案創造無限可能，例如創建遊戲、聊天機器人、不同界面，甚至連接到不同的系統。

使用 Temi 室內導航系統，可以通過將靜態設備更改為移動設備來創建不同的解決方案，例如 IOT 傳感器、八達通系統、支付系統、IAQ 傳感器等。

Temi 機器人提供了一個開放式軟件開發工具包 (SDK) 平台，讓開發者創造無限可能。該機器人採用最先進的人工智能技術及配合感應器和攝像機系統，可根據需要進行識別和遵從指令，亦可預先規劃執行路線並於動態環境中自動導航。鑑於其兼容和可擴展的特性，預期該機器人將受到初創公司的熱捧，未來市場潛力不容小覷。

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

The Chinese University of Hong Kong
香港中文大學



AR-Home & AR-Centre Rehab

Physical therapists and Occupational Therapists are taking great efforts to provide the best therapeutic exercises to patients. With a growing aging population worldwide, the demand for high quality rehabilitation will continue to increase. This gives us the motivation to develop the AR+Therapist, a platform providing automated rehabilitative training with advanced AR technology to support the efforts of therapists effectively. Users can train at home/community centers by themselves. Personalized training is designed, assembled and monitored by the therapist and 3D whole body tracking technology.

智能家居及中心 AR 復康指導訓練

物理治療師和職業治療師正在努力為患者提供最好的治療練習。隨著全球人口老齡化的加劇，對高質量康復的需求將不斷增加。這給了我們開發 (AR+ 治療師) 的動力，這是一個使用先進 AR 技術提供自動化復康訓練的平台，以有效地支持治療師的工作。用戶可自行在家/社區中心進行培訓。個性化訓練由治療師指導和 3D 全身追蹤技術支援。

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

Hong Kong Productivity Council
香港生產力促進局



kNOW Touch

Given the threat of COVID-19 infection risk from physical touch, minimising contact with objects has become an essential part of anti-pandemic efforts - particularly when it comes to pressing the elevator buttons, which is often regarded as a hotbed for germs. HKPC has developed a novel "kNOW Touch" contactless panel to lessen the risk of coronavirus transmission whilst using an elevator. This cost efficient technology only requires a small twist without the need of vast mechanical alteration to perform.

Comments from Judging Panel 評審委員會評語

The kNOW Touch is the first solution of its kind in the market. It adopts the design of infrared light curtain allowing cost-effective and minimal retrofitting to all types of existing panel button, regardless of its model and brands. Besides the noted benefits of low cost and high efficiency, its design concept is considerate, aiming to not change the living habits (using fingers to press elevator buttons) of ordinary people. This novel and contactless elevator button application has been quite mature and its performance has been recognized by the market after many developments. It provides a cost-effective and user-friendly option for the public to widely adopt to lower the risk of contracting and spreading COVID-19.

kNOW Touch 無觸按鈕

因應身體接觸會增加感染新型冠狀病毒病 (COVID-19) 的風險，減少觸碰成了有效防疫的重要方法之一，尤其是公共場所的按鈕都有機會成為病菌溫床。生產力局首創「kNOW Touch 無觸按鈕」電梯面板，透過隔空方式按動升降機，以降低傳播病毒的風險。此項成本相宜的技術只需簡單安裝即可應用，更毋需進行大幅度的機械結構改動。

「kNOW Touch 無觸按鈕」是市場上同類型項目的首個解決方案。它採用「紅外線光牆」原理設計，無需進行大幅度的機械結構改動，既具成本效益，亦可適用於任何電梯型號和品牌的按鈕面板。除了低成本、高效率的顯著優勢外，其設計理念也相當貼心，旨在不改變人們的生活習慣（用手指按電梯按鈕）為大前提而開發。這款創新的非接觸式電梯按鈕解決方案已經相當成熟，經過多次開發，其性能表現已獲得市場認可。它不僅為市民提供性價比高和易於採用的便利方案，更重要是能大大降低 COVID-19 的傳播和感染風險。

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

Hong Kong Applied Science and
Technology Research Institute Company Limited
香港應用科技研究院有限公司



Power supply system for carbon neutral building

ASTRI's "Power supply system for carbon neutral building" solution is a smart power system platform to manage DC-powered residence/office/building with enhanced energy efficiency. The technology innovations include silicon-carbide (SiC)-based power conversion system and digital DC circuit breaker. The SiC-based power conversion system ensures superior power conversion efficiency, >98.5% for most of the power range, with remote monitoring and controlling functions. It maximizes the usage of incoming electricity with minimal loss on both power conversion and transmission. The digital DC circuit breaker raises the electricity safety to the next level. It reacts 100 times faster than the existing mechanical circuit breaker to a short circuit fault, significantly reduces short circuit current level, disconnects the circuit without electric arc which may cause fire, and user friendly.

Comments from Judging Panel 評審委員會評語

The system can convert the incoming electricity of a home/office from AC voltage to DC voltage and power the appliances connected to the DC voltage grid. Due to the nature of renewable energy, e.g. PV, and battery storage, are in DC voltage format. Using those in the DC grid is more efficient and lower cost as it eliminates the AC-to-DC and DC-to-AC power conversion waste. In a nutshell, the system is a feasible and emerging way to lower energy consumption and facilitate the carbon neutral target.

碳中和屋宇供電系統

應科院的“碳中和建築供電系統”是一個智能電源系統平臺，用於管理直流供電的家庭/辦公室/建築，提高能源效率。其關鍵技術包括基於碳化矽 (SiC) 的電源轉換系統和數字化直流斷路器。在大部分功率範圍內，基於碳化矽的電源轉換系統可實現大於 98.5% 電源轉換效率，並且可以遠程監控。它最大限度地利用輸入電力，同時將電力轉換和傳輸到設備的損失降至最低。數字化直流斷路器將用電安全提升到一個新的水平。它的保護速度比現在的機械式斷路器快 100 倍，顯著降低短路電流，無電弧斷開可避免電弧引起的火災，並且非常易於使用。

該系統可將家居/辦公室的輸入電力從交流電壓轉換為直流電壓，並為連接到直流電壓電網的電器供電。由於可再生能源的性質，例如 PV 和電池等皆採用直流電壓格式。該方案直接在直流電網中供電，能省卻因「交流到直流」和「直流到交流」轉換電源的能源損耗。簡而言之，該系統能有效降低能源消耗和實現碳中和目標。

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

LR IOT LIMITED
雄宇科技有限公司



UV-C VentGuard

UV-C VentGuard (“UVG”) is a product designed and engineered in Hong Kong for the purpose of enhancing the hygiene of the living environment. With the outbreak of the COVID-19, it was discovered that pathogens including SARS-CoV-2 spread through the living environment via ventilating pipes. UVG was developed to protect the city from the hidden threat.

UVG operates non-stop 24/7 to disinfect any air out of the ventilating pipe with Internet of Things technology to ensure the smooth operation of UVG. Maintenance and operations are all monitored via cloud based services with AI and big data to enhance energy efficiency.

Comments from Judging Panel 評審委員會評語

The Air disinfection using UV-C light to ensure air coming out from the ventilating pipe is free of pathogens and hygienic. It can prevent vertical transmissions caused by the sewage ventilating system which is particularly suitable for the dense and tall buildings in Hong Kong. Leveraging on IoT and Cloud technologies, it can optimize for power consumption and provide notifications for pre-emptive maintenance.

智能通風管淨化器

智能通風管淨化器 (“UVG”) 是一款在香港設計，在香港生產的本地產品，旨在促進生活環境的衛生水平。隨著 COVID-19 爆發，病原體如 SARS-CoV-2 被發現會透過通風管道，四散至生活每一個角落，成為隱形的威脅，UVG 正是為了保護城市免受威脅而研發出來。

UVG 能夠全年無間斷運行，對通風管道內的空氣進行消毒，並利用物聯網技術以確保 UVG 順利運行。而透過雲端服務可以進行維護和操作，及利用大數據進行監控，提高能源效率。

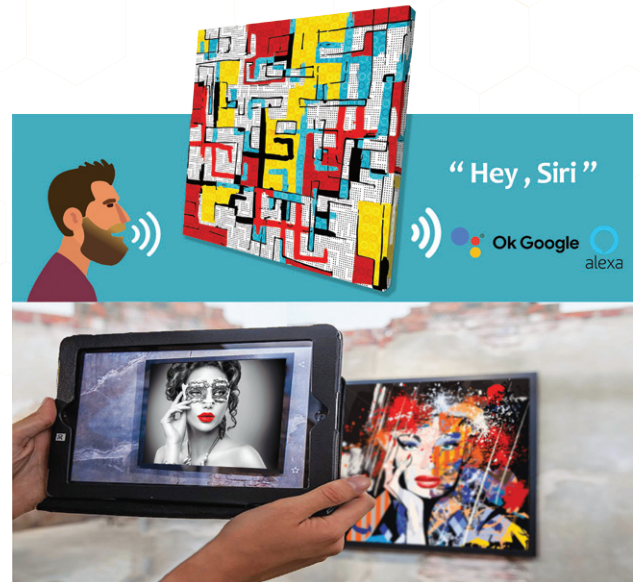
該通風管淨化器使用 UV-C 光進行空氣消毒，能有效確保從通風管排出的空氣不含病原體且衛生。它可以防止污水通風系統引起的垂直傳輸，特別適用於香港密集式的高樓大廈。另外，透過物聯網和雲技術，它可以有效減低能源損耗及預報維修需要。

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

Digital Oasis Ltd



 VisualSonic



VisualSonic

VisualSonic is an Art-Tech product designed to combine arts with the latest technologies. It is a patented technology of sound output system, using a vibration material to replace the traditional speaker assembly. The entire product is disguised as a hanging work of art, but in fact, is a wall-mounted wireless speaker. To make it more interesting & useful, VisualSonic was equipped with an Augmented Reality function to help artists to explain the meanings underneath their arts. It also embedded the voice assistants to function as a communication hub in the smart home system that combining artistic elements with technologies.

Comments from Judging Panel 評審委員會評語

VisualSonic uses a newly invented sound vibration material (a kind of fabric) to replace the traditional speaker components. The most special feature is its sound quality, comparable to professional speakers. As this first of in-kind material can be printed with artwork graphics, the product itself can become a piece of décor wall art. What's more interesting is that it can be equipped with Augmented Reality (AR) & Voice control technology as an infotainment product. This perfectly interprets the combination of visual art, audio technology and entertainment, and also the attribute of smart living.

VisualSonic

VisualSonic 是一種創新的藝術科技產品，將藝術與最新的數碼科技相結合。它是一種新的聲音輸出系統專利技術，利用新發明的振動材料產生共振聲音系統來代替傳統的揚聲器（啦吧）組件。整個產品偽裝成為一件懸掛的藝術品，但實則是一款壁掛式無線音箱。為了讓它能更有趣和實用，VisualSonic 配備了增強現實（AR）功能，以幫助藝術家更容易解釋其藝術背後的含義。它還嵌入了語音助手功能，成為智能家居系統中將藝術與科技相結合的一個通信樞紐。

VisualSonic 採用經特別創新研製的震動發聲材料（一種布料）來代替傳統的揚聲器組件。最特別之處是它的音質可媲美專業音箱。由於這個創新的表層布料可以印上彩圖，使之產品本身可以成為一件裝飾牆的藝術品。更有趣的是，它可以配備增強現實（AR）功能和語音控制技術作為信息娛樂產品。這完美詮釋了視覺藝術、音頻技術和娛樂的結合，以及呈現智慧生活品味。

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

Kamakura Foods Limited
株式會社鎌倉食品有限公司



Hot-Chain Bento Machine Platform

Wada Bento is a hot-chain bento machine platform bringing restaurants to consumers' doorsteps. Through our machine platform, consumers can enjoy hot and fresh gourmet bentos in just 17 seconds. We develop advanced electronic system and IoT feedback control, enabling the machines to operate at high-temperature conditions robustly. Seven patents have been filed in Japan, US and China with four granted. Over 150,000 bentos have been sold and the platform has been deployed by top restaurant chains in Hong Kong.

Comments from Judging Panel 評審委員會評語

Hot-Chain Bento Machine Platform is a transformative lunch solution which serves customers with the hot foods in a hygienic way in just within 17 seconds. It has a completely different concept from the traditional self-service frozen food vending machine. The innovation behind the platform is their machine reliability and IoTs to ensure the machine and the whole logistics chain can meet the hot-chain requirements (always keep foods at above 60 degrees) to serve hot and speedy lunches to customers. This technology satisfies customers' pursuit of speed, health and deliciousness.

熱鏈智能便當機平台

和田弁当是一個熱鏈智能便當機平台，幫助餐廳擴張銷售渠道到客人的門口。通過我們的平台，客人可以在17秒內享用到熱辣辣新鮮好味的便當。自行研發的電子系統和物聯網反饋控制技術確保了機器在高溫環境下穩定運作。已在日本、美國、中國申請7項專利並已獲頒4項。該平台已賣出的15萬份便當，並獲香港的大型餐飲集團採用。

該熱鏈智能便當機平台是一革新性的午餐解決方案，可在17秒內為顧客提供安全衛生的熱食。它與傳統的冷凍食品自助售貨機有著完全不同的概念。該平台背後的創新意念在於其硬件的穩定性和物聯網技術，確保自助售貨機和整個物流皆能夠滿足熱鏈所要求（如將食物一直保持恆溫在60度以上），務求為客戶提供熱騰騰的午餐。這項技術同時滿足了客戶對速食、健康和美味的追求。

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

Solos Technology Limited
所樂思科技有限公司



Solos Smartglasses

Solos Smartglasses' personalized directional stereo speakers offer superior surround sound. The patented Whisper® Audio Technology is designed for clear phone conversation as the built-in beamforming microphones help filter out external noise and focus on the users' voice.

Combining the Solos AirGo mobile app, Solos Smartglasses take care of users' daily health. The posture monitoring system consists of a reminder mechanism and a set of sensors, intelligently tracking posture of the users and reminding them to sit or stand properly. Users can also get guidance and motivation from there to build healthy and fitness habits.

The patented detachable temples allow users to swap different frames for expressing own personality.

Comments from Judging Panel 評審委員會評語

Equipped with a variety of patented and high-end technologies, Solos Smartglasses is a one-for-all glasses with active noise cancellation, directional stereo speakers and a mobile app specialized for fitness benefits. Unlike other smart glasses for enterprise purposes, Solos Smartglasses is compact, practical, versatile and fashionable, targeting ordinary users for their needs in their daily life.

Solos 智能眼鏡

Solos 智能眼鏡的定向立體聲喇叭讓人享受最佳的音質。內置的Whisper®專利音頻技術及語音導向，即使在非常嘈雜的環境下也可以進行清晰的電話交談。

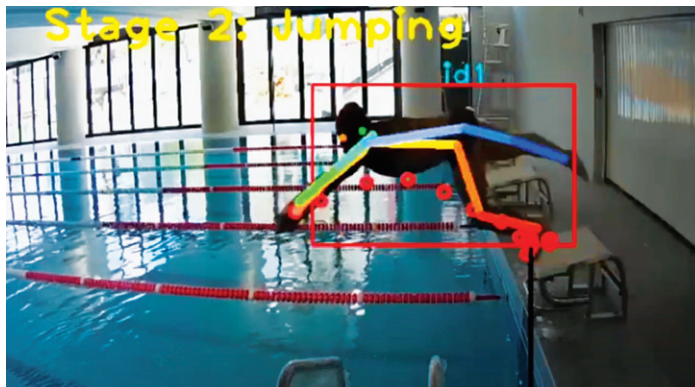
結合 Solos AirGo 流動應用程式，用家可以獲得日常運動指引和動力，建立健康生活和做運動的習慣。姿勢監測系統由提示機制和一組傳感器組成，智能跟踪用家的姿勢，並以語音提示糾正姿勢，以保持脊骨健康。

此外，Solos備有已獲專利的可拆式眼鏡腿，用家可按個人喜好，換上不同款式的眼鏡框架，以表達自己的時尚風格。

Solos 智能眼鏡配備多種專利和高端科技，是一款多功能眼鏡，內置降噪技術、定向立體聲雙喇叭、和專門針對身體運動鍛鍊的流動應用程式。異於其他企業級智能眼鏡，Solos智能眼鏡輕巧實用、功能齊全、百搭時尚，一副眼鏡就能滿足用家的日常生活需要。

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

Sport Artificial Intelligence Laboratory, Department of
Electrical and Electronic Engineering, The University of Hong Kong /
Hong Kong Univisual Intelligent Technology Limited
香港大學電機電子工程系運動人工智能實驗室 / 獨聚慧眼科技有限公司



Smart Swimming Pool

Smart swimming pool applies AI technology for drowning detection and swimmer performance analysis. AI analyses swimmers' image and detect their skeletons. Alarm will be triggered when the probability of drowning is high so that safe guard can take immediate action. Swimmer performance analysis helps coach to analyze the key points such as head, shoulder, wrist, knee, ankle of the swimmer, record and analyze their posture from jump start, accelerate to finish. The system also calculates the frequency and amplitude of each stroke and provide more data for the coach to evaluate the performance. This project is funded by the Innovation & Technology Fund for Better Living.

智能游泳池

智能游泳池包括人工智能溺水偵測系統和泳術表現分析系統。利用人工智能分析泳池水底的視頻影像，勾劃出人體的骨架，分析游泳者的動作，計算泳者溺水概率發出警號，顯示遇溺者的位置，讓救生員可及早拯救。泳術表現分析系統讓游泳教練可以通過泳池邊的視像鏡頭分析游泳頭、手、臂、肩、腰、臀、腿、腳等關節點的姿態。記錄泳手的表現，從起跳、插水、加速、衝線分析不同階段的動作，計算出手腳的撥水頻率和幅度，讓教練和泳手可掌握更多數據作出檢討。這項目是由創科生活基金支持的。

Introduction of Leading Organiser 籌辦機構簡介



The Hong Kong Information Technology Federation (HKITF) was founded in 1980 as a not-for-profit, non-political 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

Tel 電話：3101 8197
Fax 傳真：3016 9600

Email 電郵：smartliving@hkitf.org.hk
Website 網址：<https://smartliving.ictawards.hk>

Acknowledgement

鳴謝

Panel of Judges

評審委員會

Chairman

主席

Dr William LO, JP
Director
Television Broadcasts Ltd

盧永仁 博士，JP
電視廣播有限公司
董事

Panel Members

委員

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

Mr Rico CHAN
VP & Head of APAC Sales, Yahoo
Verizon Media

陳啟滔 先生
Verizon Media
雅虎副總裁及亞太區銷售董事總經理

Mr Fritz CHIU
Financial Controller
Data Exchange Ltd.

招亮輝 先生
Data Exchange Ltd.
財務總監

Mr Ricky CHOI
Senior Manager, Smart Living
Hong Kong Cyberport Management Co Ltd

蔡偉傑 先生
香港數碼港管理有限公司
智慧生活高級經理

Dr Ken FONG
Adjunct Professor
Hong Kong Polytechnic University

方健僑 博士
香港理工大學
兼任教授

Mr Argon HO
Managing Director, Greater China
Check Point Software Technologies Ltd.

何偉國 先生
Check Point Software Technologies Ltd.
大中華區董事總經理

Mr Edmond LAI
Chief Digital Officer
Hong Kong Productivity Council

黎少斌 先生
香港生產力促進局
首席數碼總監

Ms NG Mei-mei
Managing Director
Oxford University Press (China) Ltd.

吳薇薇 女士
牛津大學出版社(中國)有限公司
董事總經理

Mr Ivan SO
Founder
Zizsoft Limited

蘇子賢 先生
即時軟件有限公司
創辦人

Mr Johnny WONG
Chief Executive Officer
Hotmob Ltd.

黃國明 先生
Hotmob Ltd
行政總裁

Dr William YU
Chief Executive Officer
World Green Organisation

余遠騁 博士
世界綠色組織
行政總裁

Acknowledgement

鳴謝

Assessors
評審員

Smart Healthcare
智慧醫療



Chief Assessor (Second on Front Row)

Dr William YU

Chief Executive Officer
World Green Organisation

主評審員 (前排左二)

余遠騁 博士

世界綠色組織
行政總裁

Assessors (From Left on Front Row)

Ms Teresa NG

Head of Marketing
HKT Ltd

Ms Irene CHEUNG

Co-founder
Radica Systems Ltd.

委員 (前排左起)

吳詠欣 女士

香港電訊有限公司
市務主管

張頌恩 女士

雷克系統有限公司
聯合創始人

Assessors (From Left on Back Row)

Mr Adrian KAM

Creative Director
I Character Ltd.

Dr FAN Ning

Chairman
Health In Action

Mr Sang YOUNG

Director - Consulting Services
SecuriTech Solutions (Hong Kong) Ltd.

Mr Victor CHOI

Chairman
Hong Kong Electronics & Technologies Association

委員 (後排左起)

甘永修 先生

雅態創意有限公司
創意總監

范寧 醫生

醫護行者
主席

楊和生 先生

SecuriTech Solutions (Hong Kong) Ltd.
諮詢服務總監

蔡劍誠 先生

香港電子科技商會
會長

Acknowledgement 鳴謝

Assessors
評審員

Smart Home
智能家居



Chief Assessor (Third from the Left)

Mr Rico CHAN

VP & Head of APAC Sales, Yahoo
Verizon Media

主評審員 (左三)

陳啟滔 先生

Verizon Media
雅虎副總裁及亞太區銷售董事總經理

Assessors (From Left)

Mr Vincent SO

Chairman
Hong Kong Retail Technology Industry Association

Mr Winson KAM

General Manager, Consulting & Application Management Services
Expert Systems Ltd

Mr Johnny LUK

Director
Speedy Group Corporation Limited

Mr Stanley CHOW

Executive Committee Member
Hong Kong Association of Interactive Marketing

委員 (左起)

蘇增慰 先生

香港零售科技商會
會長

甘偉康 先生

思博系統有限公司
總經理

陸宗賢 先生

環速集團有限公司
董事

周國正 先生

香港互動市務商會
委員

Acknowledgement

鳴謝

Assessors
評審員

Smart Lifestyle
生活時尚



Chief Assessor (Second on Front Row)

Ms NG Mei-mei

Managing Director
Oxford University Press (China) Ltd.

主評審員 (前排左二)

吳薇薇 女士

牛津大學出版社(中國)有限公司
董事總經理

Assessors (From Left on Front Row)

Ms Vivian CHOI

CEO
Junior Achievement Hong Kong

Mrs Patricia LAU

Director of Alumni Affairs and Development
The Education University of Hong Kong

委員 (前排左起)

蔡卓慧 小姐

青年成就香港部
行政總裁

劉泂靜儀 女士

香港教育大學
校友事務與發展總監

Assessors (From Left on Back Row)

Mr Albert WONG

Chairman
Association of I.T. Leaders in Education (AiTLE)

Mr Alex KUN

Head of Product & Innovation
HKT Ltd

Mr Mark CHAN

Group CEO
CMRS Group

Mr Sam HUI

Managing Partner
Media Pro Hong Kong Ltd.

Mr Eddy HUI

CEO
Hong Kong Designers Association

委員 (後排左起)

黃健威 先生

資訊科技教育領袖協會
會長

管紀東 先生

香港電訊有限公司
產品及創新主管

陳迺恆 先生

CMRS Group
行政總裁

許健生 先生

傳媒精英有限公司

許迅 先生

香港設計師協會
行政總裁



HONG KONG
ICT AWARDS
2021 香港資訊及
通訊科技獎

Office of the Government Chief Information Officer
The Government of the Hong Kong Special Administrative Region
of the People's Republic of China

中華人民共和國香港特別行政區政府 政府資訊科技總監辦公室

Leading
Organiser
籌辦機構



Hong Kong
Information Technology Federation
香港資訊科技商會

Awards
Supporting
Organisations
大會支持機構



Hong Kong Applied Science and
Technology Research Institute
Company Limited
香港應用科技研究院有限公司



Hong Kong Cyberport
Management Company
Limited
香港數碼港管理有限公司



Hong Kong Science and
Technology Parks Corporation
香港科技園公司



Hong Kong
Trade Development Council
香港貿易發展局



Innovation and
Technology Commission
創新科技署



Invest Hong Kong
投資推廣署

Media Sponsors
媒體贊助



Supporting
Organisations
支持機構

