

# 2022 WITSA Global Innovation and Tech Excellence Awards Nomination Form

The 2022 WITSA Global Innovation and Tech Excellence Awards (formerly known as *the Global ICT Excellence Awards*) will be presented to select individuals, academic institutions, corporations, NGOs or governments whose use and applications of digital technologies exhibit exceptional achievement within the following broad categories:

Private Sector/NGO	Public Sector
Digital Opportunity/Inclusion Award	Digital Opportunity/Inclusion Award
Smart Cities Award	Smart Cities Award
Sustainable Growth/Circular Economy Award	Sustainable Growth/Circular Economy Award
Innovative eHealth Solutions Award	Innovative eHealth Solutions Award
Public/Private Partnership Award	Public/Private Partnership Award
E-Education & Learning Award	E-Education & Learning Award
Emerging Digital Solutions Award	Startup Ecosystem Award

In addition, a *Chairman's Award* will be presented to a nominee selected from the entire pool of candidates from all award categories.

Candidates for these Awards are nominated by ICT experts from around the world who span over 80 countries/economies. The 2022 *WITSA Global ICT Excellence Awards* will take place in conjunction with the September 13-15, 2022 World Congress on IT in Penang, Malaysia (<https://wcit2022.com/>).

## Smart City Award

**Award Criteria:** A smart city is an urban area that uses different types of electronic methods and sensors to collect data. Insights gained from that data are used to manage assets, resources and services efficiently; in return, that data is used to improve the operations across the city (ref. Wikipedia). This includes data collected from citizens, devices, buildings and assets that is then processed and analyzed to monitor and manage traffic and transportation systems, power plants, utilities, water supply networks, waste, crime detection, information systems, schools, libraries, hospitals, and other community services. The smart city concept integrates information and communication technology (ICT), and various physical devices connected to the IoT (Internet of things) network to optimize the efficiency of city operations and services and connect to citizens.

Smart city technology allows city officials to interact directly with both community and city infrastructure and to monitor what is happening in the city and how the city is evolving. ICT is used to enhance quality, performance and interactivity of urban services, to reduce costs and resource consumption and to increase contact between citizens and government. Smart city applications are developed to manage urban flows and allow for real-time responses. A smart city may therefore be more prepared to respond to challenges than one with a simple "transactional" relationship with its citizens.

**Award #1: Corporations:** This award will recognize outstanding Smart City industry solutions, including in digital administration, best industry solutions in civic and community engagement and transparency, including Open Data, city portals, and emergency services, best industry initiatives in the area of digital equity and accessibility including technologies for disability compliance, innovations in accessibility services, public Wi-Fi, and other projects focused on underserved communities, automation and systems integration to measure, monitor, control, and optimize building operations and to use energy in the most efficient and cost-effective way, reducing challenges and costs related to water stress, systemic inefficiency, and water loss while improving asset management and customer services, industry initiatives in the field of transportation, including autonomous cars, connected vehicles, and smart public transit, smart parking, smart infrastructure, intelligent traffic management, multi-modal transport hubs, journey planning and ride-hailing/ride-sharing services.

**Award #2: Government authorities** This award will recognize outstanding Smart City government projects, including the best projects in digital administration, best projects in civic and community engagement and transparency, including Open Data, city portals, and emergency services, best initiatives in the area of digital equity and accessibility including technologies for disability compliance, innovations in accessibility services, public Wi-Fi, and other projects focused on underserved communities, automation and systems integration to measure, monitor, control, and optimize building operations and to use energy in the most efficient and cost-effective way, reducing challenges and costs related to water stress, systemic inefficiency, and water loss while improving asset management and customer services, initiatives in the field of transportation, including autonomous cars, connected vehicles, and smart public transit, smart parking, smart infrastructure, intelligent traffic management, multi-modal transport hubs, journey planning and ride-hailing/ride-sharing services.

**YOUR NOMINEES (limit three nominations per award category).** *Please specify whether the nominee(s) are for the private or public sector category.*

Private Sector

Nominee: Yee Fung Technology Ltd

Entry Name: Hong Kong Science Park Building 17W19W Robotic Parking System

**REASONS FOR NOMINATION** (NOTE: It is important that you make a detailed description of the nominee and why you think the nomination is justified. The absence of a detailed summary of qualifications as they *relate* to the above-mentioned award description will make it difficult for the awards committee to make an appropriate assessment of the candidate):

Following the rapid urbanization across the world and land resource are stretched to the limit, while the number of vehicles continue to increase that cause traffic jam and shortage of parking space as the global challenge. In another sense, smart city initiatives become government's strategic policy with less air-pollution, thus smart transportation and mobility are critically needed. From parking user perspective, they wish for a spacious, safe and comfortable parking experience, even ticketless, cashless and even touchless parking due to the Covid-19 impact.

Hong Kong, as an international city, encounters heavy challenges of lacking of parking space. The ratio of parking space to license vehicle has declined from 1.32 to 1.01 within 10years, with more than 200,000 gap of parking space. Furthermore, Hong Kong has lots of car park with narrow driveway and irregular layout that cause difficult or even unsafe parking experience.

Apart from the government regulation to encourage public transportation. How to increase parking space within a limited footprint but with safe, efficient, comfortable and even smart parking experience become an important topic in Hong Kong, possibly in other cities of global.

Located across Hong Kong Science Park Buildings 17W and 19W, the Robotic Parking system features a combination of technologies including AI, moving robotics & sensors, and automatic EV charging. It is the first robotic parking system with EV charging in this region, possible in the world. It offers a safer and smarter enhanced car parking experience versus conventional car parks, with significant space savings and minimized lighting and ventilation power consumption.

The cutting-edge facility lets drivers simply park their cars onto the pallet inside the designated chamber and then confirm at the kiosk to initiate the parking process with a one-time-passcode generated. An automatic guided vehicle (AGV) will transport the pallet with the car to a vacant parking space. To retrieve the car, drivers just input the assigned passcode to the kiosk and the car will be transferred by the AGV to the designated chamber for pick up. Drivers can also use the Robotic Parking System Mobile Apps to schedule car retrieval, check parking availability, car parking status and EV charging status.

This Entry showcase Hong Kong's leading edge smart city innovation and advance the city's vision for smarter living and smarter mobility. The technologies itself, even with different parking robots without EV charging, has also been used in Singapore 18 Robinson tower and Afro Asia building tower car park, Australia Sydney Castle building and many more projects inside China through Yeefung. It can handle robotic car park from dozens of parking space to more than several thousands parking space with modular system that including lifts platform, moving robots and control systems.

We recommend this entry as one of the options for the urban designers to solve their parking challenges and empower city smart mobility.

**SUPPORTING INFORMATION:** Please send any supporting information to the address above, including information from candidate (i.e. excerpt from program description, web site print-out, press release, etc.)

- Brandhongkong Youtube Video link:  
<https://www.youtube.com/watch?v=wfMPBy4t1eU&t=68s>
- 2021 HKICT Award Smart Mobility Grand Award winner link:  
[https://www.hkictawards.hk/award\\_en.php?year=2021&aid=7](https://www.hkictawards.hk/award_en.php?year=2021&aid=7)
- <https://www.info.gov.hk/gia/general/202111/29/P2021112900515.htm>

**NOMINEE CONTACT INFORMATION** (for award follow up and coordination)

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