



LSCM Wins Five Awards
at the 47th International Exhibition of Inventions of Geneva
Indigenous Technologies for Building a Smart City

9 May 2019, Hong Kong — The Logistics and Supply Chain MultiTech R&D Centre (LSCM) won five awards at the 47th International Exhibition of Inventions of Geneva, including two Gold medals and three Silver medals for its five submitted projects. These remarkable achievements demonstrate LSCM’s continuous efforts in contributing to the development of gerontechnology and smart city technologies in Hong Kong.

Mr Simon Wong, Chief Executive Officer of LSCM, said, “The International Exhibition of Inventions of Geneva is one of the most prestigious annual global events dedicated to innovation. We are delighted to have received multiple awards for our submissions this year. The award-winning projects mainly focused on bettering our local community with state-of-the-art technologies. With our vision reflected in these projects, we are looking forward to exploring opportunities through close collaboration and partnership with related industries and academia to make great advancement in technological development.”

The award-winning projects, ranging from gerontechnology to smart living technology, facilitate applications in different industries. These technologies could help to strengthen the development of Hong Kong as a smart city and improve the quality of living of the community. With the encouragement of receiving the prestigious awards, LSCM will continue to spare no effort in initiating indigenous research and development of innovation and technology.

Award-winning Projects

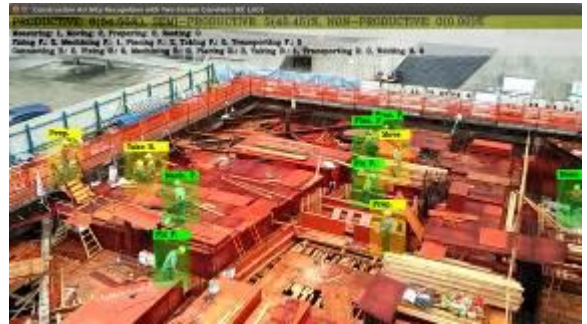
Gold Medal: Infrared Thermal Sensing Safety Alert System for the Elderly

The Infrared Thermal Sensing Safety Alert system, which preserves personal privacy, was developed to monitor an individual’s safety in a private space. It analyses the real-time thermal data of the private space to determine whether the individual needs support from the caretakers. With the installation of the thermal sensor, this low-cost thermal sensing system can detect and analyse human movement in the private space. When body movement is not detected for a pre-defined period of time, an alarm will alert the caretakers. The thermal sensor can be installed easily inside a toilet or a bathroom. With a centralised platform for the thermal sensors array and movement alert monitoring, the sensing and alert management system facilitates more convenient services in elderly care centres.



Gold Medal: Pi: A Smart Construction Quality Management System

Project Eye (Pi), a vision-based system, integrates computer vision with deep learning to improve the current manual quality management process in construction sites. In order to determine whether there are any quality deviations and dangers in construction activities, Pi takes site surveillance videos as input to detect construction-related objects and recognise activities of workers and construction plants.



Pi is non-intrusive and requires little additional cost in its implementation since surveillance cameras are commonly used in construction sites. Thus, it can be easily extended to improve construction safety management. It can conduct site inspections and make records so as to lessen the workload of human inspectors.

Silver Medal: Smart Traffic Control System

The Smart Traffic Control System has been developed based on video analytics technology to identify types of vehicles, analyse the traffic flow and enable smart control of traffic lights. This low-cost device can be easily installed and built upon an existing traffic control system and is especially useful in places where the roads cannot be widened, and that a smart traffic control device is needed to resolve traffic congestion. It can also generate detailed traffic reports to revamp the transportation system in the future.



Silver Medal: Landslide Detection and Alerting System

The landslide detection and alerting system enhances the effectiveness of remote barriers built through the years by the Civil Engineering and Development Department (CEDD) of the Hong Kong SAR Government. It allows real-time monitoring of falling debris and build-up, and uses a web platform and mobile app to issue alerts to the authority. This low cost, reliable, low power consumption system ensures real-time detection of landslide impact on barriers.





Silver Medal: Real Virtuality for Aircraft Inspection (ReVAI) Training System

In collaboration with China Aircraft Services Limited (CASL) and The University of Hong Kong, the ReVAI is a virtual reality (VR) training system developed for CASL engineers. This innovative training management system is based on the technology of an interactive and immersive VR training paradigm powered by imseCAVE VR solutions.

ReVAI not only greatly enhances the availability and flexibility of the training process, but also improves the safety of the personnel performing the work. Moreover, the system can analyse a trainee's behaviour during the training process. It provides a higher standard of the skills of trainees with enhanced flexibility, lower risk of damaging valuable hardware, and ultimately improves the cost effectiveness of a training programme.



The 47th International Exhibition of Inventions of Geneva

The 47th International Exhibition of Inventions of Geneva was held from 10 to 14 April 2019. Arranged under the patronage of the World Intellectual Property Organisation (WIPO), the Swiss Federal Government, the State and the City of Geneva, it showcases innovations and inventions from around the globe. This year, the exhibition attracted over 800 exhibitors from 40 countries.

About LSCM

The Logistics and Supply Chain MultiTech R&D Centre (LSCM) was founded in 2006, with funding from the Innovation and Technology Fund of the HKSAR Government, and is co-hosted by The University of Hong Kong, the Chinese University of Hong Kong and the Hong Kong University of Science and Technology. It aims to strengthen the local logistics and related industries by providing a one-stop resource for technology transfer and commercialisation, and reinforce the cooperation between the industry and research institutes, to bring about meaningful and significant benefits to the industry and the community. For more information, please visit www.lscm.hk.

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Photo Captions

Photo 1



1. Mr Simon Wong, Chief Executive Officer, LSCM(3rd, left) together with key project team members of the five winning entries, including Dr Eric Luo, Senior Research Fellow, Department of Building and Real Estate, The Hong Kong Polytechnic University (1st, left), Dr C.H. Cheng, Director, Research and Technology Development, LSCM (2nd, left), Dr Frank Tong, Director, Research and Technology Development (Systems), LSCM (3rd, right), Dr Henry Lau, Associate Dean (Innovation), Faculty of Engineering and Associate Professor, Department of Industrial and Manufacturing Systems Engineering, The University of Hong Kong (2nd, right) and Mr David Chung, Senior Project Manager, LSCM (1st, right) introduced the technologies at the Media Briefing for “LSCM’s Accomplishment at the 47th International Exhibition of Inventions Geneva”.