



For Immediate Release

LSCM Wins 8 Awards at the 49th International Exhibition of Inventions of Geneva

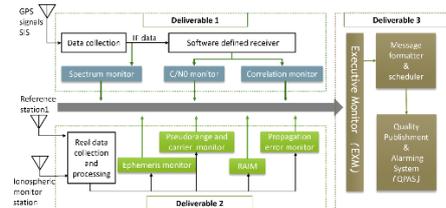
25 April 2024, Hong Kong — Logistics and Supply Chain MultiTech R&D Centre (LSCM) has been honoured with 8 awards at the 49th International Exhibition of Inventions of Geneva, including 1 Gold Medal, 3 Silver Medals and 4 Bronze Medals. These distinguished recognitions highlight LSCM's unwavering commitment to fostering the Smart City development in Hong Kong, as well as developing innovative technologies to improve people's lives. The technologies developed by LSCM span a diverse range from logistics and supply chain, e-Commerce and trade, gerontechnology, construction, to smart city technology.

Mr Simon Wong, Chief Executive Officer of LSCM, MH, FCILT, said, "We are delighted to announce that our technologies have again achieved international acclaim this year at the highly esteemed International Exhibition of Inventions in Geneva, one of the world's premier events dedicated to inventions. This outstanding achievement reaffirms LSCM's full commitment to the development of innovation and technology. We will remain steadfast in our mission to develop industry-oriented technologies and facilitate the adoption of these technologies among different industries and the community so as to foster the Smart City development in Hong Kong as well as driving economic growth."

LSCM's Award-winning Projects

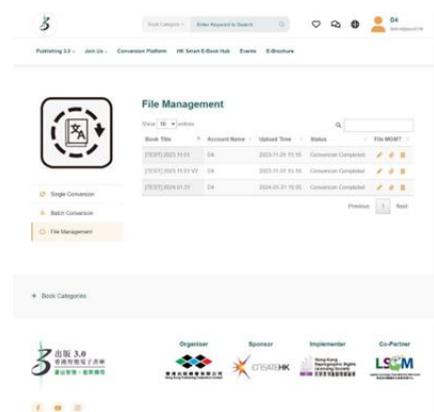
Gold Medal: Hong Kong GNSS Signal Quality Monitoring and Interference Detection System

This system continuously monitors the quality of Global Navigation Satellite System (GNSS) data in specific local areas. It identifies any sources that may interfere with GNSS signals. It can be deployed globally to offer monitoring, locating and warning services so as to enhance the positioning service for various applications, such as unmanned aerial vehicles (UAVs) and communication systems.



Silver Medal: e-Publishing Platform

This is a self-service platform utilising AI NMT (Artificial Intelligence Neural Machine Translation) to provide translation service for e-books whilst preserving the typesetting and formatting similar to the original version. This enhances the translation quality and efficiency, and also reduces the cost for translation. The platform also possesses the function of audio production from text which facilitates the production of audio books, enhancing the efficiency in producing audio books and reducing the time and cost for recording the audio clips. This helps to enhance the efficiency and productivity of the publishing industry.





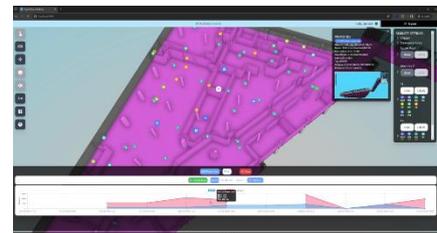
Silver Medal: *Computer Vision-enabled Digital Twin for Construction Resource and Progress Management*

This system utilises web cameras for outdoor monitoring and panoramic imaging for indoor construction activity analysis based on deep neural networks. By creating a real-time digital representation of physical objects and scenarios, schedule delays and productivity loss can be calculated, along with the reasons and recommendations inferred. The technology aims to reduce progress lagging, rework, and resource loss, leading to improved resource management performance which helps to enhance the competitiveness of the Hong Kong construction industry.



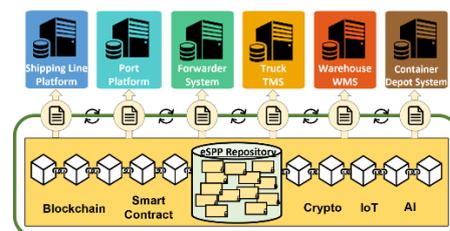
Silver Medal: *Digital Twin, AI, Robotics, and IoT Empowered ESG Platform for Property and Facility Management Industries*

This digital twin-based robot-assisted surveillance platform combines Building Information Modeling (BIM), Internet of Things (IoT), robotics and AI technologies to enhance environmental, social and governance (ESG) reporting as well as environmental management capabilities of the real estate sector. Through novel robot localisation, digital twin integration, and AI-based spatial-temporal analytics technologies, it delivers comprehensive monitoring and analysis capabilities, enabling the property and facility management industries to effectively manage their environmental impact, optimise resource utilisation, and make data-driven decisions, assisting the industry in the sustainable and efficient management practices.



Bronze Medal: *e-SmartPort Platform*

In support of Hong Kong's continued development as a smart port, LSCM collaborated with the Transport and Logistics Bureau to develop the e-SmartPort Platform (eSPP). It is a data-smart infrastructure and inter-organisational software platform to facilitate the sharing of port and logistics information across the port community. Deploying blockchain technology, smart contracts, advanced IoT and global positioning technologies, the platform effectively tracks and visualises global supply chains and port logistics, strengthening Hong Kong's position as a leading international trade and maritime hub.





Bronze Medal: *Intrusion Detected Continuous Re-authentication (IDCRA) Technology*

LSCM developed the Hong Kong Cross-boundary Public Services self-service kiosks in collaboration with the Efficiency Office, supporting the initiative of the HKSAR Government and Guangdong Provincial Government to promote the Cross-boundary Public Services. This Intrusion Detected Continuous Re-authentication (IDCRA) technology enhances the privacy protection of the kiosks, enabling enterprises and residents in the Mainland cities of the Greater Bay Area to securely access public services of the HKSAR Government, enhancing the service quality.



Bronze Medal: *AI in Assisting Crop Pest and Disease Control*

This customised AI app addresses critical concerns pertaining to crop damage, with the aim to enhance pest control in the agricultural sector. It employs advanced algorithms to pinpoint instances of crop damage, perform analysis of the underlying causes, and recommend effective control measures. By anticipating pest impacts and overseeing scouting records, this app aids farmers in the early detection of potential threats and encourages proactive intervention. Additionally, this project's initiative strives to build a platform for the dissemination of information, thereby enhancing public awareness, and promoting the adoption of technology.



Bronze Medal: *Application of Baby Tag and Baby Tracking Management Control System in the Neonatal Intensive Care Unit*

The system enhances the security in the Neonatal Intensive Care Unit (NICU) to reduce the risk of baby abduction. By incorporating tamper-resistant straps and a double ring design to minimise false alarms, it enables immediate visual and audio alerts in response to unauthorised movements or tampering of the baby tags. The Radio Frequency Identification (RFID) reader is developed to assign specific timeslots and RF communication channels with the tags to prevent interference. Caregivers can swiftly respond to alerts from this real-time tracking solution, enhancing the safety of the newborn babies in the NICU.





The 49th International Exhibition of Inventions of Geneva

Held from 17 to 21 April 2024 at Geneva, Switzerland, the 49th International Exhibition of Inventions of Geneva attracted around 1,000 innovations from more than 40 countries, ranging from inventors and researchers, universities, industrial and commercial companies, to private and state organisations and institutes. With a history of nearly 50 years, this annual global exhibition was arranged under the patronage of the World Intellectual Property Organisation (WIPO), the Swiss Federal Government, and the State and the City of Geneva, to showcase innovations and inventions worldwide.

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 Government of the Hong Kong SAR, 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 sector and related industries by providing a one-stop resource for applied research and technology transfer, and to reinforce cooperation between the industry and research institutes, so as to bring about meaningful and significant benefits to the industry and the community. For more information, please visit www.lscm.hk.

Photo captions



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