

# EMSD wins 19 awards at International Exhibition of Inventions of Geneva (with photos)

The Electrical and Mechanical Services Department (EMSD) achieved outstanding and encouraging results at the International Exhibition of Inventions of Geneva, winning five gold medals, 13 silver medals and one bronze medal.

"Further to the attainment of encouraging results in the International Exhibition of Inventions of Geneva last year, we are very pleased that our achievements have won recognition from the expert international jury panel again and received 19 awards this year. The EMSD will continue to stride ahead, innovate and create with our partners and stakeholders for the betterment of the society," a spokesman for the EMSD said today (March 29).

The EMSD has all along been proactive in applying new technologies to enhance service quality, and ensuring that electrical, mechanical and energy technologies are harnessed in a safe, reliable, economical and environmentally friendly manner for the betterment of people's quality of life. As the innovation facilitator of the Government, the EMSD will continue to strengthen the matching of technological needs from the Government with innovation and technology solutions from start-ups and research and development institutes through the E&M InnoPortal, with a view to supporting and facilitating the application of innovative technologies by bureaux and departments to improve services, support smart city development and achieve carbon neutrality.

The EMSD's winning projects are:

## Gold medals

- Intelligent Elevator Movement Surveillance Device (i-EMSD)
- Intelligent Digital Escalator Monitoring System (i-DEMS)
- Robotic Lift Examiner
- Smart Boiler Servicing Robot
- Smart Driver Assistant for Automated People Mover

## Silver medals

- A Contactless Inmate Health Monitoring System in Prison
- A Drone-based LoRa Network for Location Tracking in Remote Areas
- A Novel RFID System
- A Novel Wireless Communication System for Underground Utility Monitoring
- AI Voicebot Training System with Performance Evaluation for Call Centre Agents
- Artificial Intelligence Based Image Analytic and Control System for Cremation Process

- Artificial Intelligent Monitoring System for Aerial Ropeways (AIMS)
- Artificial Intelligent Robotic Cleaning and Disinfection System – i-Cleaner
- Fireman Health Monitoring System
- IoT-enabled Mobile Modular HEPA Unit (MMHU): Together, We Fight the Virus
- Responsive Web-based Solar Irradiation Map with Solar Energy Calculator for Hong Kong
- Semantic AI for Predictive Maintenance of Railway Track Systems
- Smart Lift Passenger Flow Analysis

#### Bronze medal

- Integrated Solar Energy Performance Management Toolkit (iSMS)

The International Exhibition of Inventions of Geneva is one of the most significant global annual events devoted exclusively to inventions. The competition was held online this year due to the pandemic. About 800 inventions from 25 countries and regions were evaluated by the international jury of specialists in mid-March. For details about the International Exhibition of Inventions of Geneva, please visit [inventions-geneva.ch/en/home](https://inventions-geneva.ch/en/home).

Information about the E&M InnoPortal can be browsed at [inno.emsd.gov.hk/en/home](https://inno.emsd.gov.hk/en/home).



