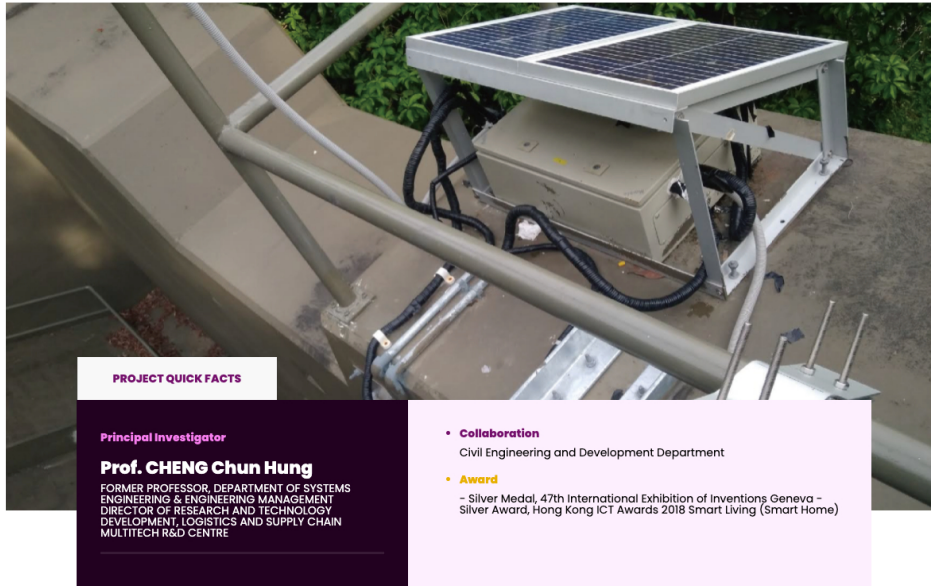🖨 Print the page

Smart Landslide Detection System

#Constuction   #Advancedsystems   #Sensor   #2019

PROJECT QUICK FACTS

Principal Investigator

Prof. CHENG Chun Hung

FORMER PROFESSOR, DEPARTMENT OF SYSTEMS ENGINEERING & ENGINEERING MANAGEMENT
DIRECTOR OF RESEARCH AND TECHNOLOGY DEVELOPMENT, LOGISTICS AND SUPPLY CHAIN MULTITECH R&D CENTRE

• **Collaboration**
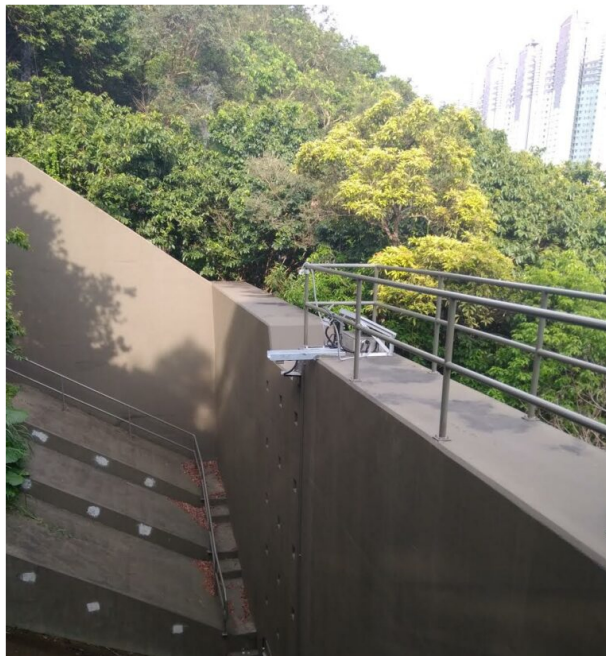Civil Engineering and Development Department

• **Award**
- Silver Medal, 47th International Exhibition of Inventions Geneva -
Silver Award, Hong Kong ICT Awards 2018 Smart Living (Smart Home)

Mountainous terrain covers 60% of the land area of Hong Kong, and landslides may happen under conditions of continuous rainfall. Civil Engineering and Development Department of Hong Kong SAR Government has been building rigid concrete barriers and flexible wire-mesh fence along the hillside to protect the residential area below. However, these barriers are often located at remote area, making it difficult to perform onsite checks for accumulation of debris and determine if debris exceed the capacity limit of barriers. Smart landslide detection system provides real-time monitor of water level, falling debris and build up, and real-time alerts to the authorities concerned. The system performs steadily under extreme weather conditions, demonstrating its ability to immediately notice any landslide activity and protect residents.

Uniqueness and Competitive Advantages:

• Low cost, durable, reliable and low power consumption system
• Real-time detection of landslide impact on barriers
• Effective detection and monitoring system to protect lives and properties
• Web platform and mobile app for real-time monitor and remote access to data

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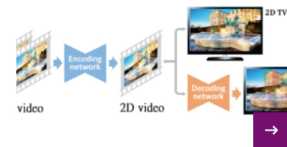**Semantic Image-Based Cloud Augmentative and Alternative...**

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