

SMART SAFETY & RISK MONITORING

(ACCEPTED BY HKIE AS A CPD ACTIVITY)

This course explores how smart technologies – including IoT sensors, AI video analytics, Vision-Language Models (VLM), and autonomous patrol robots – can strengthen safety and risk management in construction and facility management sectors. Through practical applications such as IoT bamboo putlog monitoring, smoke and heat detection, temperature monitoring, and intelligent site surveillance, participants will learn to identify risks earlier, respond faster, and maintain clearer safety records.

Key Topics Covered

- Smart Risk Monitoring: IoT, AI, and VLM technologies for proactive safety management and decision support.
- IoT Risk Management Solutions: 24/7 Real-time monitoring of scaffolding with alerts, fire and heat detection with instant notification charging stations, safety mechanisms.
- AI Video Analytics & VLM: Detection of PPE non-compliance, abnormal human posture, trespassing, fire and smoke, and hot-work hazards, supported by context-aware visual insights.
- Autonomous Patrol: VLM-integrated robot dogs for continuous monitoring in complex, remote, and confined areas.
- Best Practices & Future Trends: Building a proactive safety workflow – Detect, Alert, Verify, Record, and Follow Up – with human oversight of AI-assisted safety systems.



Speaker



Ms. Carmen Wong is the General Manager of REC Green Technologies Limited (RGT), a company specializing in energy-efficient solutions, smart building technologies, and the application of Internet of Things (IoT) solutions. With a strong commitment to sustainability, Carmen has been instrumental in advancing green building initiatives and championing the adoption of intelligent building management systems and IoT technologies across both the public and private sectors. Additionally, she actively contributes to industry development as a member of the Business Environment Council (BEC) Energy Transition Advisory Group.

EVENT DETAILS

Date	: 20 January 2027 (Wednesday)
Time	: 7:00 pm – 8:30 pm
Mode/Venue	: AIBE Campus (Yai Ma Tei) or ZOOM
Language	: Cantonese with English Terminology
CPD Hours	: 1.5 CPD Hours
Fee	: HK\$150 Non-members
(CPD e-cert inclusive*)	HK\$120 HKIE members & AIBE students/ alumni/ tutors and supporting organisations

DEADLINE
11 JANUARY 2027

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*In support of environmental sustainability, CPD certificates will be issued electronically. Printed CPD certificates are available upon request for a fee of \$50 and can be collected at the AIBE counter. In the unlikely event of a dispute, AIBE's decision shall be final.