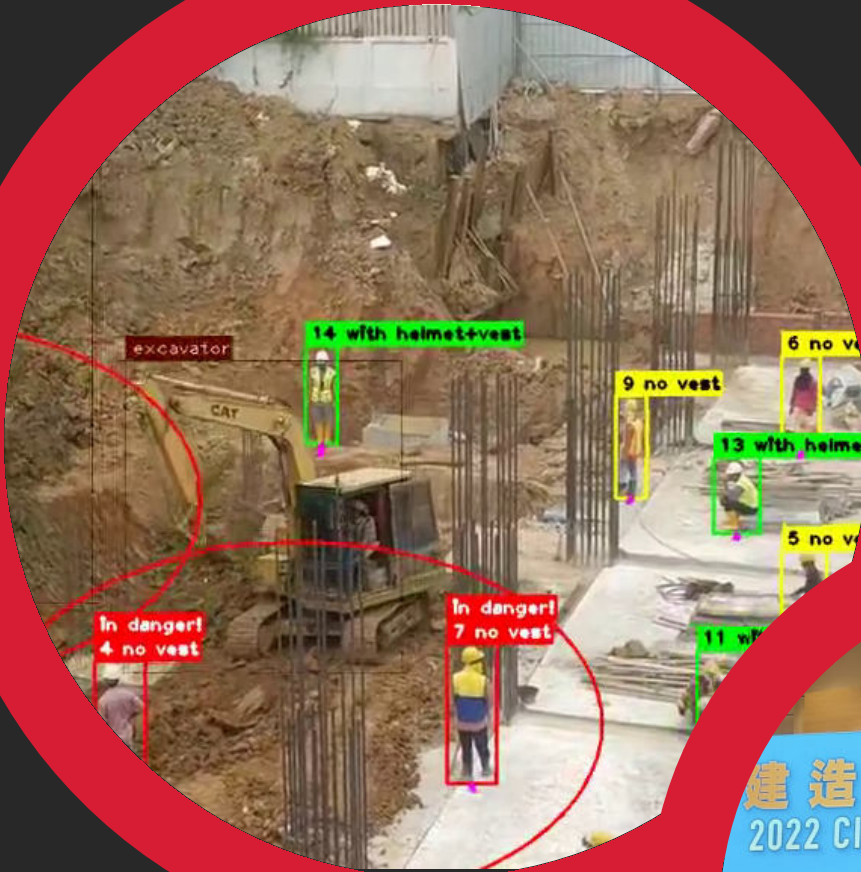


Smart Site Safety System (SSSS)



AUTOSAFE



About us

The construction industry is infamous for its high fatality rate. To AutoSafe, safety is of paramount importance.

AutoSafe was founded by a team of HKUST researchers and engineers with a mission to improve construction safety via site monitoring automation, leveraging our cutting-edge AI technologies.

We are committed to standing at the forefront of ConTech safety innovation by prioritising Research & Development.

Smart Site Safety System (SSSS)

The Hong Kong Smart Site Safety System (SSSS) is an integrated digital system designed to enhance safety and productivity on construction sites. Our SSSS is an integrated digital system that employs Internet of Things (IoT) sensors and artificial intelligence (AI) to provide real-time monitoring and analysis of construction site activities. Our system detects potential safety hazards, such as workers entering restricted areas or unsafe working practices, and alerts site managers so that corrective action can be taken quickly.

Why employing SSSS at your site?

Essential for the success of any construction project



Enhanced Safety

The SSSS employs a range of technologies, such as IoT sensors, AI, and cloud computing, to detect potential safety hazards in real-time and alert site managers so that corrective action can be taken quickly. This helps to reduce the risk of accidents and injuries on the site, protecting the safety of workers and visitors.



Compliance

The SSSS is mandated by the Hong Kong government on all public works projects with a contract sum of HK\$30 million or above, and is encouraged for adoption by private sector construction companies as well. Compliance with government regulations is essential for critical jobsites, and the SSSS helps to ensure that all safety and productivity requirements are met.



Improved Communication

The SSSS includes a centralized management platform that allows authorized users to access and manage data from construction sites. This improves communication and collaboration between site managers, contractors, and other stakeholders, helping to ensure that everyone is on the same page and working towards the same goals.



Real-time CCTV



Gas Level



Health Recognition



Humidity



Temperature



Digital Twin



Smart Wearable



And more!

AUTOSAFE

Area Of Application

Centralised Management Platform (CMP)

The centralized management platform for the SSSS is a powerful tool for managing safety and productivity on construction sites in Hong Kong, providing real-time data and insights to support informed decision-making and optimize site performance.



Get an overview of key performance indicators

For example, view the number of safety incidents, workers on-site, and alert response time



Drill down into individual accidents

For example, in case of an accident detected by our AI camera - you can view and store the details, such as location, time and CCTV captures.



Customise the system to your specific needs and workflows

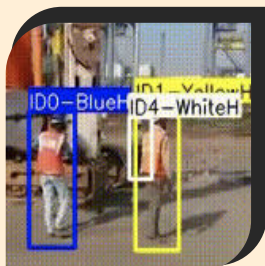
For example, manage the user access and permissions, setting up notifications and alerts, and generating reports.



Area Of Application

AI Real-Time Video Analytics

We invested years of research to improve our AI and hold an exclusive patents under HKUST Ref: TTC.PA.1581 and HKUST Ref: TTC.PA.1623.



PPE Classification

PPE is essential for protecting workers from various hazards. However, not all PPE is created equal. By analyzing real-time video footage, our AI algorithm can detect the type of PPE being worn by workers, and determine whether it is appropriate for the task at hand. AI can also identify instances where workers are not wearing PPE at all, and alert site supervisors to take corrective action.



Workers Near Site Vehicles or plant

By monitoring the danger zones, vehicles, and workers on a construction site, our AI can identify potential collisions and safety hazards and prevent accidents before they occur. This can help to reduce the risk of injuries and fatalities on construction sites, which is especially important given the hazardous nature of construction work.



Optional: Fire & Smoke Detection

Construction sites are particularly vulnerable to fires due to the presence of flammable materials, such as wood, plastics, and fuels, as well as the use of heat-producing equipment and tools. Our AI-based fire detection system can monitor construction sites for signs of fire, such as flames and smoke, and alert site personnel or emergency services in real-time.

Our Patents

TTC.PA.1581



TTC.PA.1623



Get In Touch

To receive a personalised consultation, discuss research or commercial collaboration opportunities, and more...



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