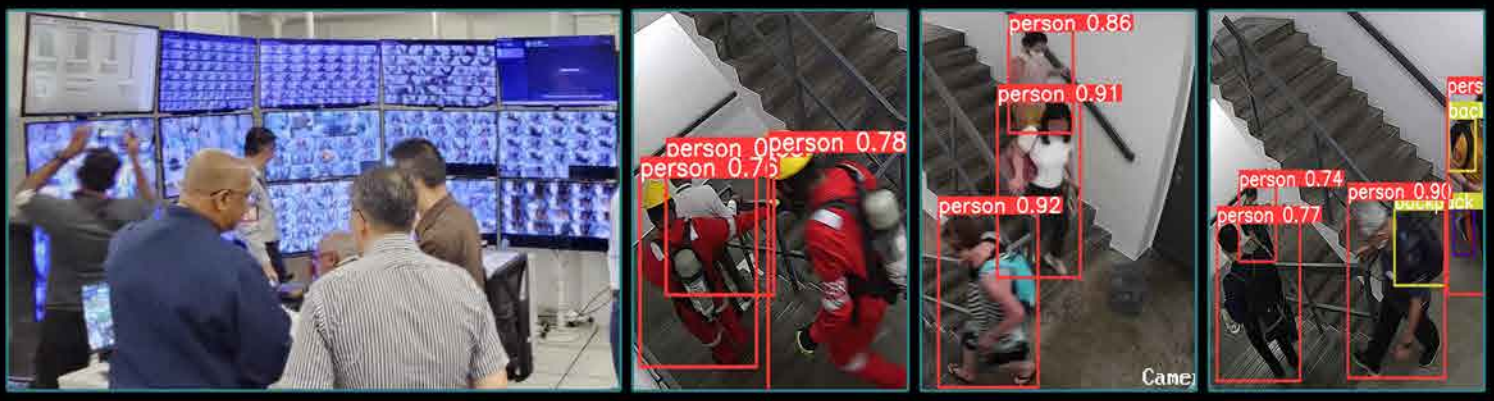
# EMERGENCY
## EVACUATION MODULE

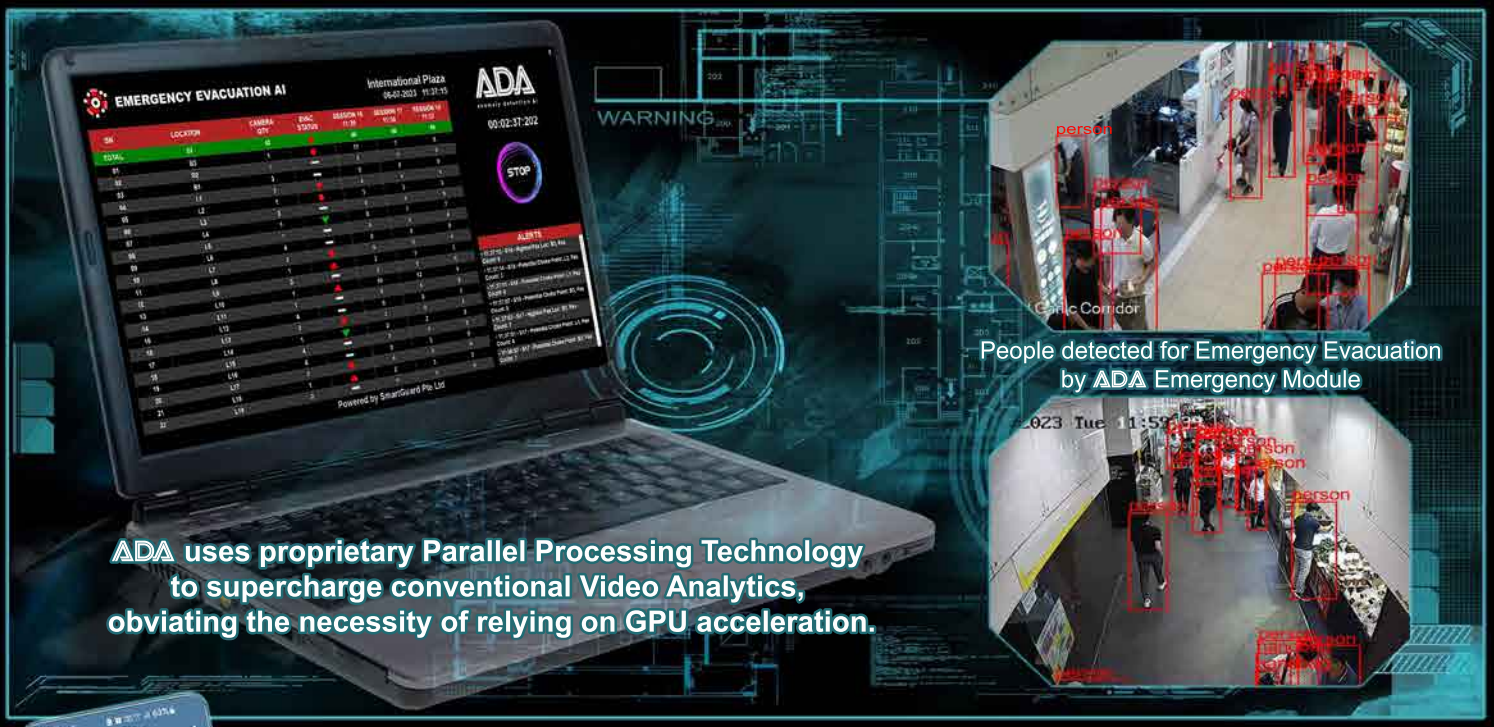
ADA
Practical Vision Analytics




Successful live showcase of ADA Fire Evacuation Technology at International Plaza for our honored guest Deputy Commissioner For SCDF - Mr Ling Young Ern.

# ADA AI

- Plug and Play with existing CCTV Camera System.
- Non GPU based Video Analytics Engine




People detected for Emergency Evacuation by ADA Emergency Module

**ADA uses proprietary Parallel Processing Technology to supercharge conventional Video Analytics, obviating the necessity of relying on GPU acceleration.**


# ADA Features

**Detection :** ADA can accurately detect human in any cctv scene without any configurations required.

**Identify :** ADA detects potential chokepoints using advanced AI algorithm.

**Report :** ADA command station module empowers emergency responders with real time human count statistics and evacuation status in an easy to understand user interface.

**Alert :** ADA's integration with mobile phones provides real time simultaneous broadcast of critical evacuation information.

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## Problem Statement For Emergency Evacuation:

In the event of a fire or other emergency requiring immediate evacuation, the current methods relying on the public address system (PA) and security personnel on-site have several limitations. These traditional methods pose a high risk of communication breakdown and chaos during evacuation efforts. Additionally, security personnel and first responders lack visibility into the number of people present on each floor or in specific areas, which can lead to congestion, choke points, and potentially dangerous stampedes during evacuations.

1. **Communication Breakdown and Chaos:** The reliance on PA systems and security personnel for evacuation instructions can result in communication breakdowns, especially in large or crowded spaces. This can lead to confusion, delays, and inefficient evacuation processes.

2. **Lack of Visibility:** Security personnel and first responders often have limited or no visibility into the number of people present on each floor or in specific areas of a building or facility. This lack of information can hinder their ability to effectively coordinate evacuation efforts, allocate resources, and ensure the safe evacuation of all individuals.

3. **Congestion and Choke Points:** Without accurate information about the distribution of people in different areas, evacuation routes can become congested, leading to choke points and potential bottlenecks. This increases the risk of accidents, injuries, and delays during evacuations.

4. **Stampede Hazards:** In emergency situations, panic and fear can trigger stampedes, especially if individuals are unaware of the overall evacuation progress or the status of different areas. Without real-time visibility into the number of people present, it is challenging to manage and prevent stampede situations effectively.

Overall, the current emergency evacuation methods relying on PA systems and security personnel lack the necessary tools and information to ensure efficient and safe evacuations. There is a need for a more advanced and reliable system that can provide real-time visibility into the number and location of individuals during emergencies and facilitate effective communication for smooth evacuations, mitigating the risk of communication breakdowns, chaos, congestion, and stampede hazards.

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## The ADA AI Emergency Evacuation Solution:

The ADA Emergency Evacuation AI presents an innovative and cost-effective solution to address the current problems associated with emergency evacuations. This solution leverages advanced computer vision technology and can seamlessly integrate with any existing CCTV security cameras without requiring additional hardware or expensive GPU-based computing power. The ADA AI system offers several key features to enhance emergency evacuations:

1. **Real-time Human Count: Using computer vision algorithms,** the ADA AI system accurately and continuously tracks the number of people present in each floor area or specific zones. This real-time human count provides security personnel and emergency responders with critical information to better allocate resources and plan evacuation strategies. The live notifications on mobile phones ensure that first responders receive up-to-date statistics on the number of people in different areas, enabling them to make timely and informed decisions.

2. **Identification of Chokepoints and Injured Individuals:** The ADA AI system goes beyond basic human counting. It can also identify potential chokepoints or areas where congestion may occur during evacuations. By analyzing the flow of people, the system can proactively identify areas that may become bottlenecks, allowing security personnel to take preemptive actions to prevent congestion and ensure smooth evacuation processes. Furthermore, the AI system has the capability to identify injured individuals, enabling emergency responders to prioritize their assistance and provide immediate aid.

3. **Seamless Integration with Existing Infrastructure:** The ADA Emergency Evacuation AI is designed to seamlessly integrate with any existing CCTV security cameras. This integration eliminates the need for additional hardware or costly GPU-based computing power, reducing implementation costs and complexity. By utilizing the video feeds from the existing cameras, the AI system can process the data in real-time, providing valuable insights for efficient evacuations without requiring significant infrastructure changes.

4. **Enhanced Communication and Decision-making:** With accurate and up-to-date information provided by the ADA AI system, security personnel and emergency responders can make informed decisions and communicate effectively during evacuation procedures. The live notifications on mobile phones ensure that critical people count statistics are readily available to first responders, enabling them to take prompt and appropriate actions. This enhanced communication and decision-making capability significantly improves the efficiency and safety of emergency evacuations.

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