

AI-based Behavioural Analysis for Public Safety

Elevate Your Security Infrastructure with Intelligent Behavioural Video Analytics

This project focuses on bolstering safety measures by leveraging advanced AI algorithms to analyse human behaviour in real-time. Monitoring through cameras and sensors allows the system to detect abnormal behaviours or potential threats, facilitating quicker security interventions. Ultimately, it aims to improve surveillance systems, identify suspicious patterns, and ensure a safer public environment.



Overview

Traditional surveillance isn't enough for today's security needs. Our advanced Behavioural Video Analytics (BVA) system, powered by the MIMOS Video Analytics SDK, redefines security by turning video feeds into actionable intelligence.

Our system accurately detects and interprets human activities using AI algorithms, deep learning, and machine learning, going beyond simple motion detection to understand complex behaviours and identify anomalies and potential threats.

The MIMOS Video Analytics SDK offers flexibility and scalability, allowing easy additions of new action classes and adaptation to evolving security needs. Its architecture supports multi-stream, multi-platform, and real-time deployment across various domains.

With this system, users can proactively detect threats, enhance situational awareness, improve response times, and optimise security operations. Unlock a safer environment and a new level of security with our intelligent Behavioural Analytics system.

Key Features

- **Aggression Detection (Composite Actions)**
BVA identifies violent interactions involving two or more individuals, enabling timely interventions to maintain public safety.
- **Atomic Detection of Risky Activities**
The system recognises specific individual movements such as running, jumping, or falling, often linked to risky behaviours, particularly among children.
- **Scalable and High-Performance**
Capable of supporting up to 32 cameras on consumer-grade GPUs, BVA performs efficiently across desktop and

embedded platforms, delivering real-time analytics at approximately 20 frames per second (FPS).

Technology Benefits

- **Crime Prevention**
By detecting aggressive behaviours and other potential threats in real-time, BVA serves as a critical tool in mitigating crime before escalation.
- **First Aid Response**
The system's ability to identify falls and other risky activities ensures that first responders can act swiftly to prevent further harm.
- **Scalable and High-Performance:**
BVA streamlines the analysis of extensive video data by categorising actions automatically, reducing the burden on human operators and enhancing operational efficiency.

Applications

- Elderly Care Facilities
- Retail Spaces
- Manufacturing Plants
- Traffic Management
- Correctional Facilities
- Public Transportation
- Construction Sites



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