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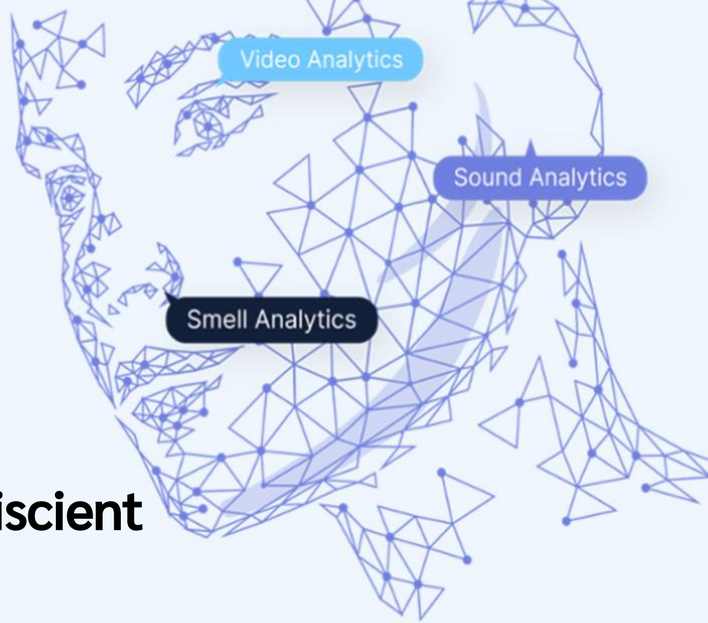
iQ-Airport
: CHILD ON CONVEYOR BELT

Detect a child and stop the belt before harm



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Child Safety Risk

Children may climb onto airport baggage conveyors

DETECT BEFORE HARM

Children climbing onto baggage conveyors face a serious safety risk.

Gold Coast Airport in Australia uses iQ-Airport to detect children on its conveyor belts.



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Detection Challenge

Simple size and temperature distinctions can fail



SMALL CHILD ≈ LARGE SUITCASE

Size alone may not separate a child from a large bag.

THERMAL LIMITATION

Thermal cameras can help distinguish a child from baggage. However, in warm conditions, bags may reach a similar temperature to a child, making differentiation difficult.

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AI-Based Detection

Separate children from baggage



CHILD ≠ BAGGAGE

AI DETECTION

Advanced multi-sensory analytics detect children.

IGNORE BAGS

The system ignores baggage on the belt.

FEWER FALSE ALARMS

The distinction supports confidence in automated stopping.

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Automatic Safety Response

At Gold Coast Airport, the system automatically stops the conveyor belt when it detects a child



01

DETECT

Recognize a child on the conveyor.

02

DISTINGUISH

Ignore suitcases to minimize false alarms.

03

STOP

Automatically stop the conveyor belt.

04

SAFE OUTCOME

Protect children before harm occurs.

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About iOmniscient

Partnership

All iOmniscient Products run exclusively on Intel based computing hardware using OpenVINO™

- The use of Advanced AI technology that goes beyond Deep Learning enables iOmniscient to run its systems without the need for 3rd party GPUs.
- This reduces the power required by a factor of 16 – resulting in a 16-fold reduction in the carbon footprint.
- This is just one part of a multi-faceted program to help customers to implement Sustainable Systems.

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About iOmniscient

- iOmniscient is an **Ethical AI** company.
- It offers **multi-sensory (video-sound-smell) Artificial Intelligence based analytics for Autonomous Systems.**
- It focuses on ensuring **Outcomes** for its customers.
- With **over 2 decades of experience,** iOmniscient systems have been demonstrated to be **robust,** operating with high accuracy and few false alarms specially in **complex and crowded** environments.
- By design, its systems **reduce the cost of infrastructure** required:
  - they can use existing cameras
  - they require fewer cameras with lower resolution
  - they require 90% less storage and network bandwidth
  - they are computing light and require no GPUs
  - they allow autonomous operations requiring fewer personnel to operate
- iOmniscient has implemented projects in **70 countries.**
- With over **70 international patents** many of its capabilities are unique and unavailable from any other source.





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