AIRPORT PERFORMANCE OPTIMIZATION APPLICATIONS

Benefits

Maintenance cost savings

Asset Management

Area Application

Airside

<mark>Security in</mark> crowd	a Ability to recognize people of interest/ suspects a crowd in an uncontrolled environment	in Security & Operational Efficiency
	Detection of Abandoned/ Suspected bag left in Crowd	a Security
	Detection of trollies being left where they shoul not be Prevent intrution in secured zones such as	ld Safety & Security
	runways, control rooms, airplane hangers and other secured zones	Safety & Security
	Ability to detect fights through behavior analytic Identify suspicious behavior - loitering, sudden	cs Security
	crowd gathering, man-down	Safety & Security
Safety	Alert for any overcrowding incidents People counting based on zones to enhance	Safety
	rescue operations during emergencies	Safety
	Slip & Fall detection	Customer welfare & reduced
	Help find missing children in a crowd using Automated Response	Customer welfare & reduced public liability
	Automated Quarantine Control	Health & Safety
	Smoke and fire detection in an open air environment	Safety
	Detect water spills to reduce public liability	Safety
Asset Oper		
Manageme	Airplane Metering at Airbridge Prevent Theft	Asset Management Asset Management

Provide predictive maintenance on equipment

Access control and staff identification

	The ability to detect for asset destruction/ manipulation (example: graffiti detection) Detect acts of vandalism and be able to identify those involved and track them tilll they are apprehended.	Asset Management Savings in clean up and repair costs
Crowd Management	Estimate Crowd density and use the data/information to decide where and when to open gates, deploy additional staff, and manage queues more efficiently. Use this data to understand he crowd behaviour and measure operational efficiency and customer success. The data can also be used for planning and optimizing operations Understand how long people spend in a particular zone so as to be able to provide a better service to users and ensure better staff scheduling Manage VIP access to gates	Customer welfare & operations planning Customer welfare and cost savings through improved efficiency Customer welfare
	Dwell time management to understand customer waiting times and enhance operations Queue management People counting & movement monitoring even when crowds are stationary	Streamline operations Streamline operations & customer Streamline operations & customer welfare
Retail	Dwell time management to understand how much time a customer spends in a particular zone Intelligent video analysis to understand the flow of people through the shopping zones to enhance customer service and use as a tool for marketing Determine rents for shore based on traffic flow	generation Streamline operations & revenue generation
	Determine rents for shops based on traffic flow	Revenue generation
Landside		
Security in a crowd	Ability to recognize people of interest at 20m distance in a crowd in an uncontrolled environment Detect of Abandoned objects left in a Crowd Detection of trollies being left where they should	Security & Operational Efficiency Security
	not be Identify suspicious behavior - loitering, sudden crowd gathering, man-down	Safety & Security Safety & Security

Safety	Alert for any overcrowding incidents People counting based on zones to enhance rescue operations during emergencies Slip & Fall detection Help find missing children in a crowd using Automated Response Automated Quarantine Control Smoke and fire detection in an open air environment Detect water spills to reduce public liability Identifying children on conveyer belts	Safety Safety Customer welfare & reduced Customer welfare & reduced public liability Health & Safety Safety Safety Safety
Management		
	Ensure that only authorized adults pick up children Ensure children are well cared (eg no aggressive behavior etc) Manage queues at check-in and security gates Overcrowding alert against crowd count crossing a defined threshold value Stationary & moving crowd count Manage VIP access to gates Dwell time management to understand customer waiting times and enhance operations Understand crowd movement directions and provide crowd counter flow alert Suspect Search within dense crowds	Safety and customer welfare Safety and customer welfare Operational Efficiency Operational Efficiency Operational Efficiency Customer welfare Streamline operations Streamline operations Safety
Asset		
Management &	Prevent Theft Provide predictive maintenance on equipment Access control and staff identification	Asset Management Maintenance cost savings Asset Management
	The ability to detect for asset destruction/ manipulation (example: graffiti detection) Detect acts of vandalism and be able to identify those involved and track them tilll they are apprehended.	Asset Management Savings in clean up and repair costs
Retail	Dwell time management to understand how much time a customer spends in a particular zone	Streamline operations & revenue generation

	Intelligent video analysis to understand the flow of people through the shopping zones to enhance customer service and use as a tool for marketing Determine rents for shops based on traffic flow	Streamline operations & revenue generation Revenue generation
Outside		
Outside		
	vehicle that is stolen or used for any criminal	
Parking	activity	Security & Operational Efficiency
	Count of how many parking spots have been occupied and how many are vacant	Streamline operations & revenue generation
	Detect Counter Direction Driving	Safety
		Streamline operations & revenue
	Dwell time to detect over time parkings	generation
	Overcrowding alert against traffic count crossing a	
	defined threshold value	Streamline operations

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