

10. HUAWEI CLOUD Enterprise Intelligence Application Platform

10.2 Details about HUAWEI CLOUD EI

Rodolfo Sabino

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Departamento de de Computação



Disclaimer

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Applied Intelligence Scenarios



ET Intelligent Twins

The ET Intelligent Twins integrates AI technologies into application scenarios of various industries and fully utilizes advantages of AI technologies to improve efficiency and experience.



Transportation

Traffic prediction and signal coordination for efficient traffic control



Industrial

Engineering intelligence for design, production, logistics, and sales



Campus

Applied intelligence for safety, convenience, and efficient energy



Vehicle

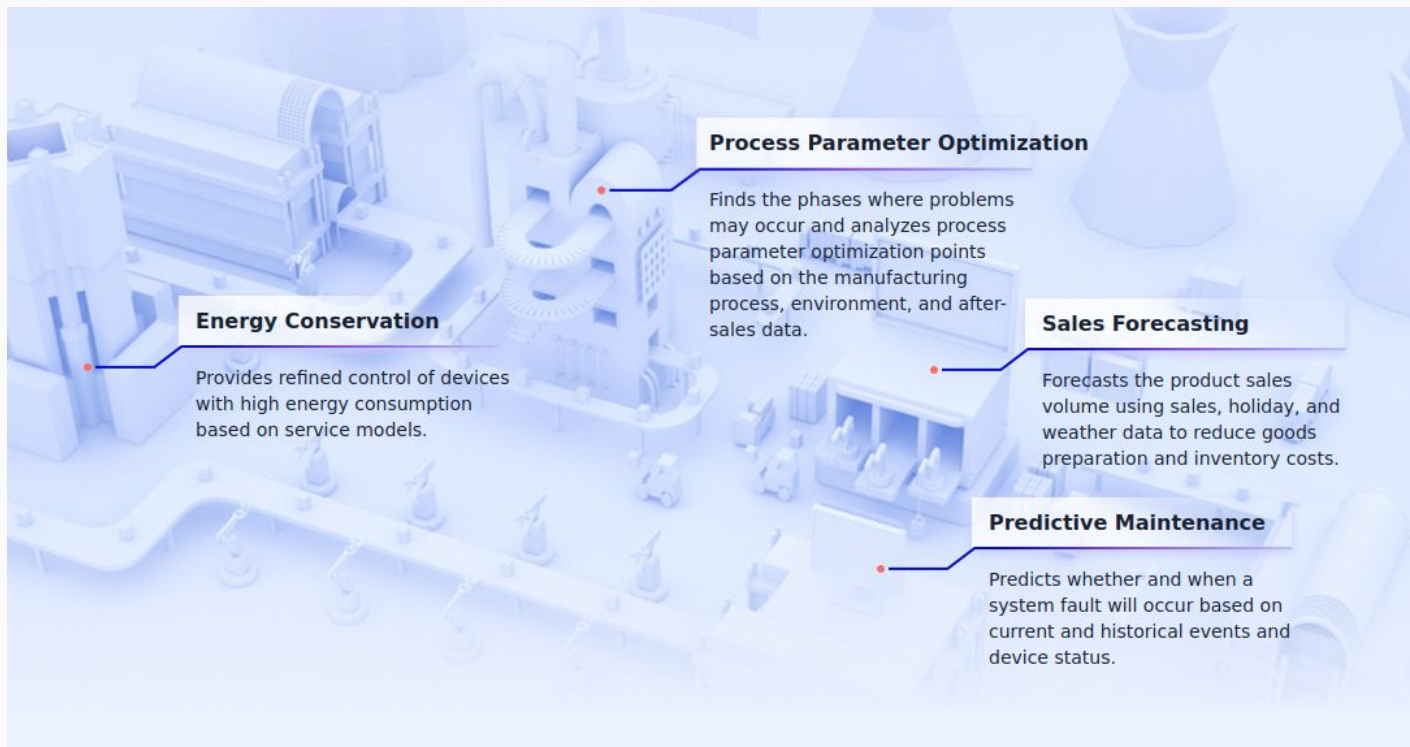
Intelligent navigation, supervision, and assistance for safe driving



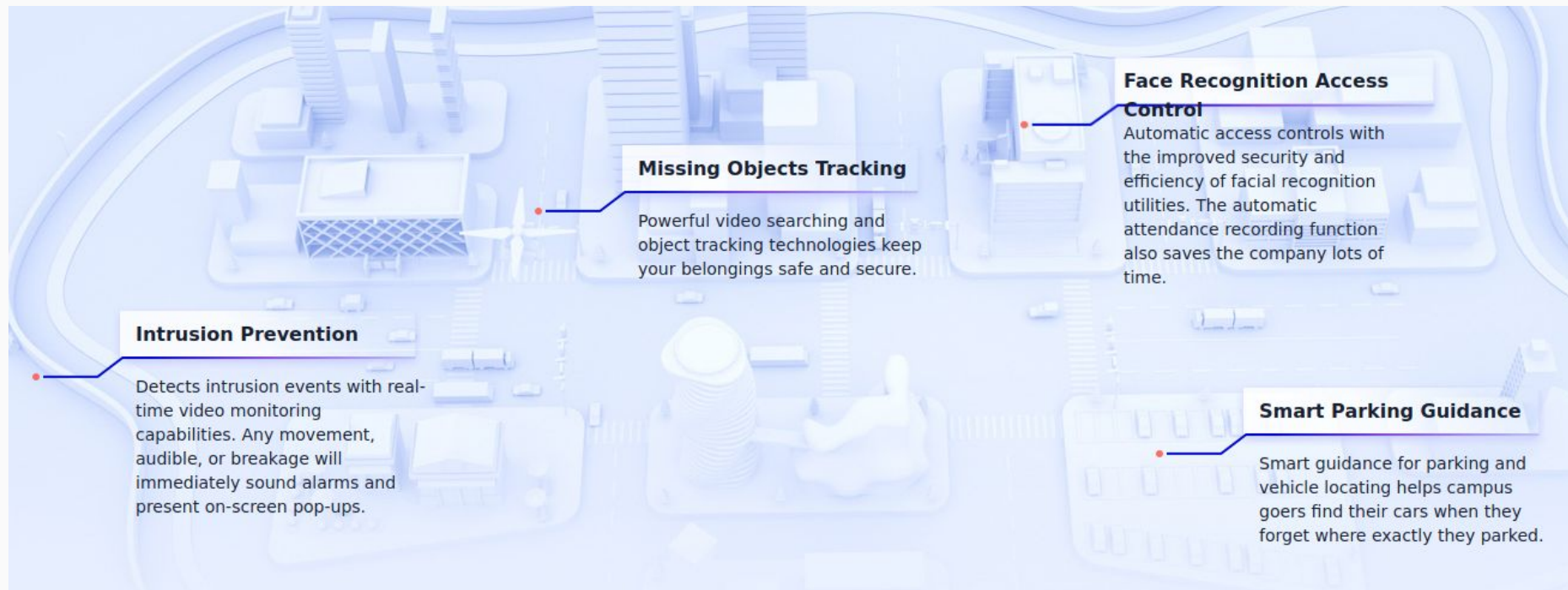
Traffic Intelligent Twins (TrafficGo)



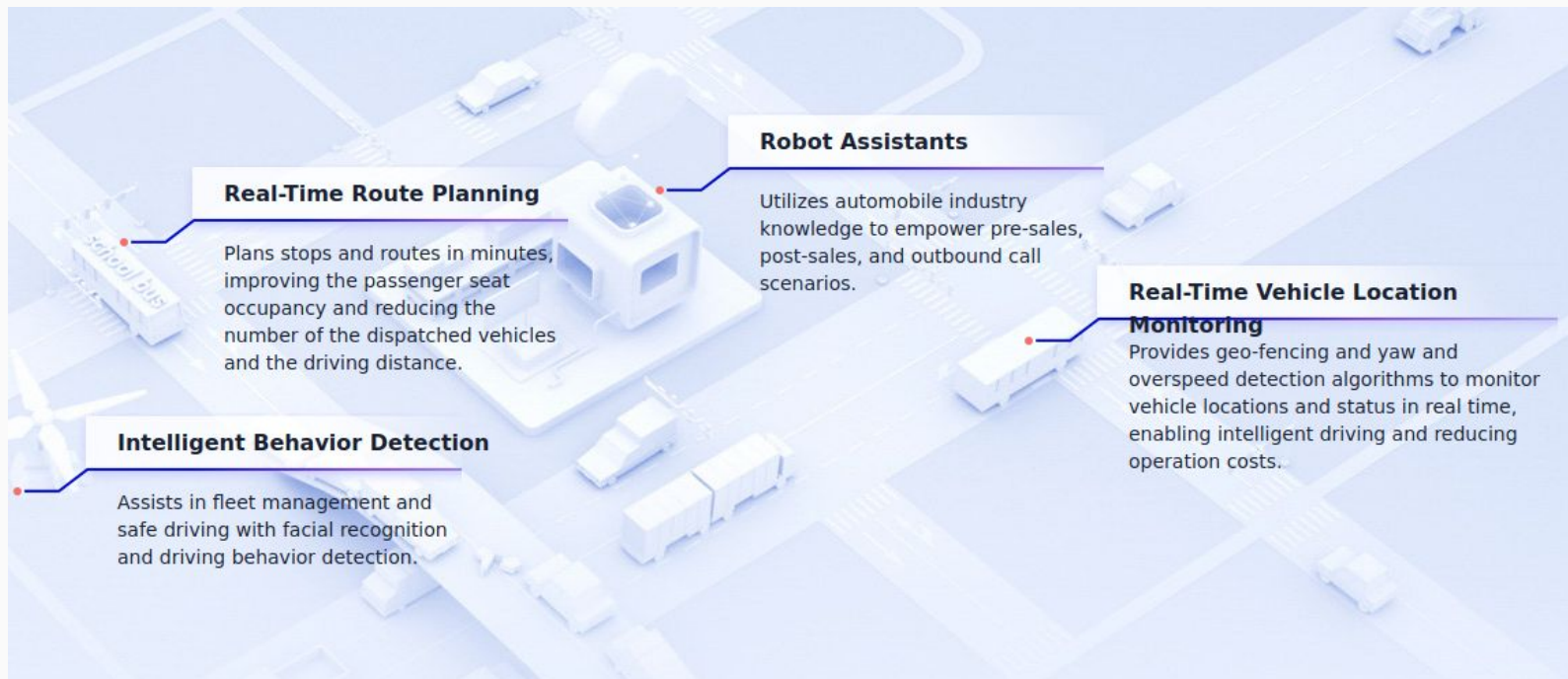
Industrial Intelligent Twins



Campus Intelligent Twins



Vehicle Intelligent Twins (iVehicle)

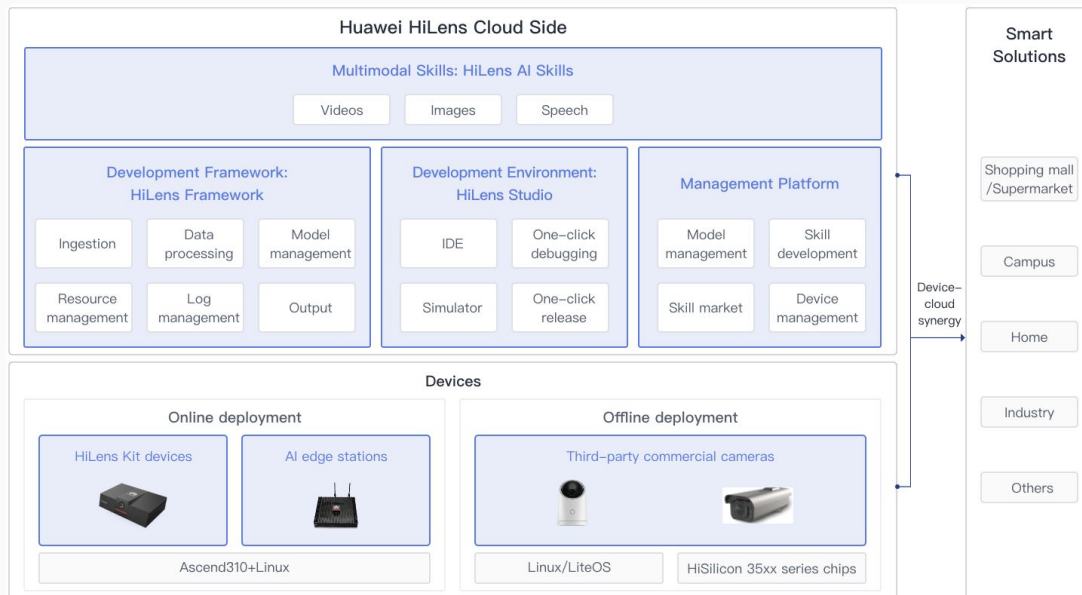


Example Cases



Huawei HiLens

Huawei HiLens consists of computing devices and a cloud-based development platform, and provides a development framework, a development environment, and a management platform to help users develop multimodal AI applications and deliver them to devices, to implement intelligent solutions in multiple scenarios.

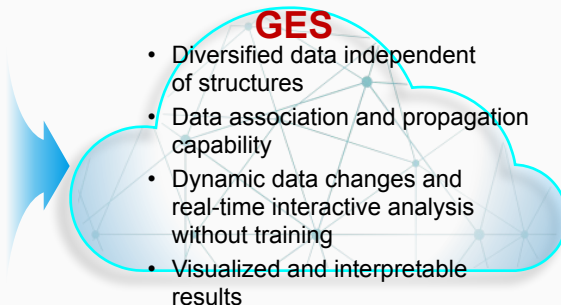


Graph Engine Service (GES)

GES facilitates **query and analysis** of **graph-structure** data based on various **relationships**. It uses the **high performance graph engine EYWA** as its kernel, and is granted many independent intellectual property rights. GES plays an important role in scenarios such as social apps, enterprise relationship analysis applications, logistics distribution, shuttle bus route planning, enterprise knowledge graph, and risk control.

- Social relationships
- Transaction records
- Call records
- Information propagation
- Browsing records
- Traffic networks
- Communication networks
- ...

The massive and complex associated data is graph data in nature.



Individual analysis



Group analysis



Link analysis

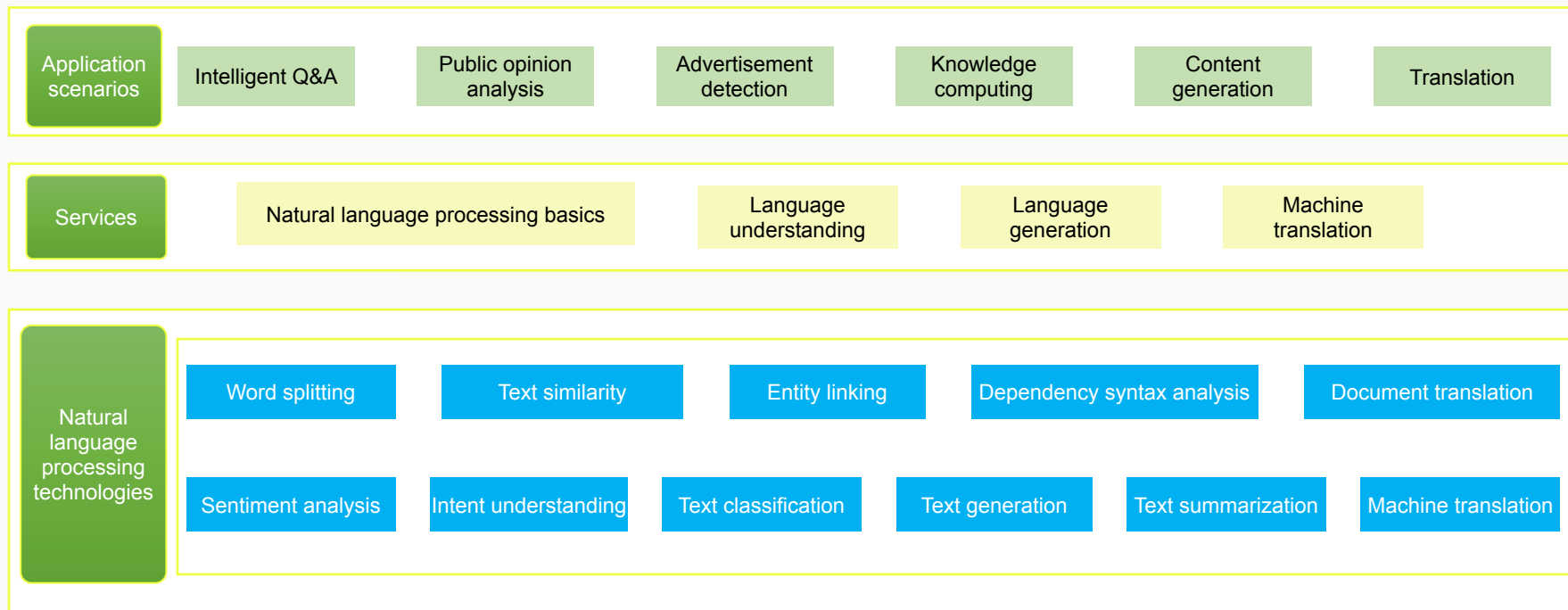


Conversational Bot Service (CBS)

- Question-Answering bot (QABot)
- Task-oriented conversational bot (TaskBot)
- Speech analytics (CBS-SA)
- CBS customization



Natural Language Processing



Voice Interaction



Short sentence/speech recognition



Real-time speech recognition



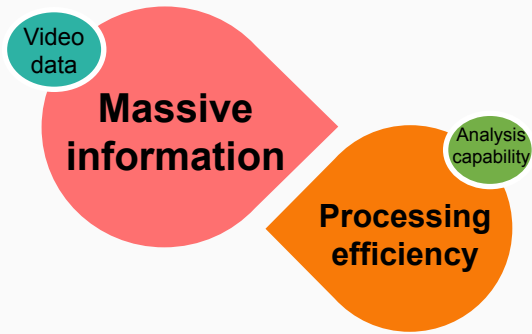
Audio recording recognition



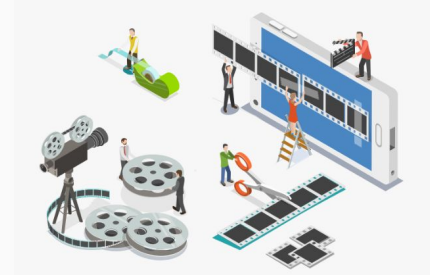
Audiobooks



Video Analytics



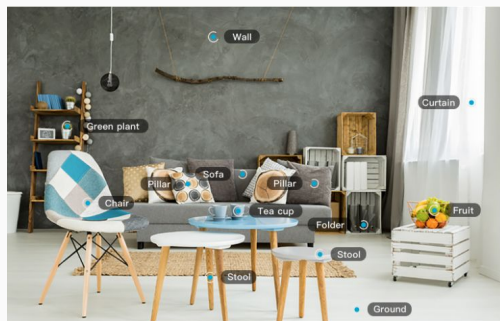
Video content analysis



Video editing

Provide the cover, splitting, and summarization capabilities based on the overall video analytics.

Image Recognition



Scenario analysis



Object detection



Smart album

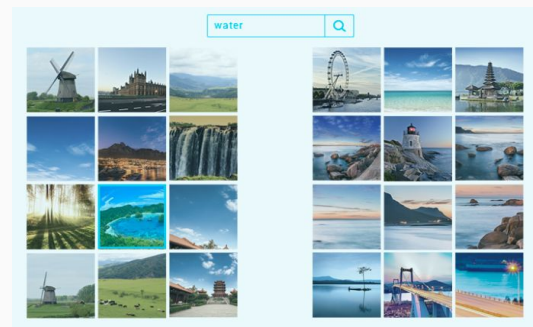


Image retrieval



Content Moderation

Content moderation adopts cutting-edge image, text, and video detection technologies that precisely detect advertisements, pornographic or terrorism-related material, and sensitive political information, reducing non-compliance risks in your business.

Moderation (image & text)

Sexy

Pornographic



Obscene content
identification



Terrorism identification

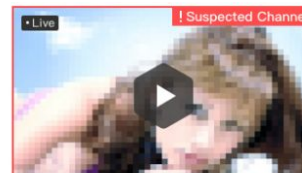


Political information
detection

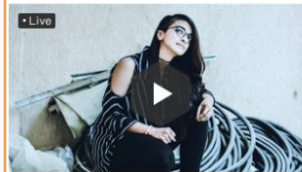
Moderation (video content)



Channel 2341 35,000



Channel 1627 32,000



Channel 4121 29,000



Channel 8712 14,000

Determine whether a video has non-compliance risks and provide non-compliance information from multiple dimensions such as image, sound, and subtitle.



AI Experience Center


The AI Experience Center is an AI experience window built by Huawei, dedicated to lowering the threshold for using AI and making AI ubiquitous.

Image Tagging

Dark Enhance

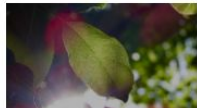



Defog


Video Content Tagging



Result

Peacock	97.7%	Feather	95.3%
Birds	93.4%	Color	89.1%
Beautiful	88.8%	Bird	87.1%
Feathers	86.9%	Gorgeous	86.5%
Colorful ph...	84.7%	Wing	81.8%
Background	76.4%	Animal	75.3%
Close-up	73.1%	Gorgeous	71.5%
Colorful	71.4%		



 Upload Image



Crowd Statistics and Heat Map

- **Functions:**

- Counting the crowd in an image.
- Collecting popularity statistics of an image.
- Supporting customized time settings.
- Enabling configurable intervals for sending statistics results.

- **Scenarios:**

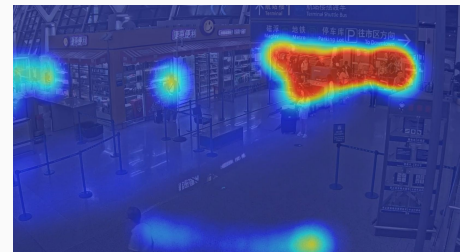
- Customer traffic statistics
- Visitor statistics
- Business district popularity identification

- **Advantages:**

- Strong anti-interference performance: crowd counting in complex scenarios, such as face blocking and partial body blocking
- High scalability: concurrent sending of pedestrian crossing statistics region statistics, and heat map statistics
- Ease-of-use: compatible with any 1080p surveillance camera



Region crowd
statistics



Region crowd heat
map



Vehicle Recognition

- **Functions:**

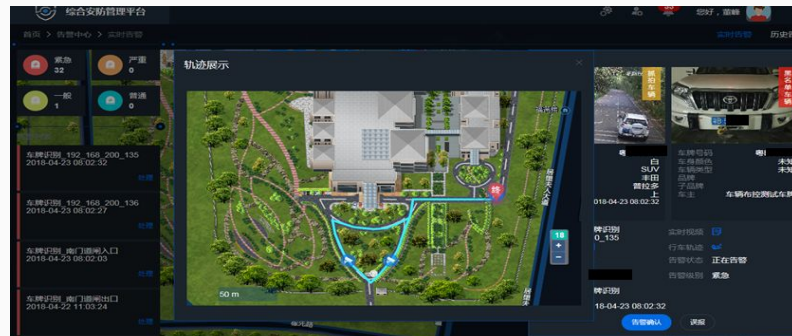
- Vehicle model detection
- Vehicle color recognition
- License plate recognition (LPR)

- **Scenarios:**

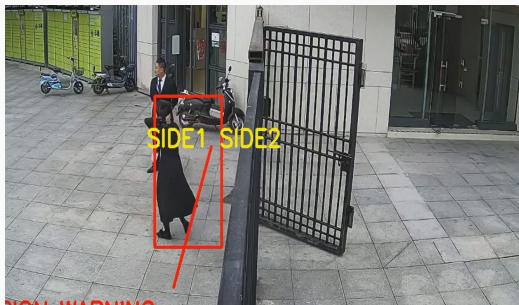
- Campus vehicle management
- Parking lot vehicle management
- Vehicle tracking

- **Advantages:**

- Comprehensive scenarios: recognition of vehicle models, styles, colors, and license plates in various scenarios such as ePolice and checkpoints
- Ease-of-use: Compatible with any 1080p surveillance camera



Intrusion Detection



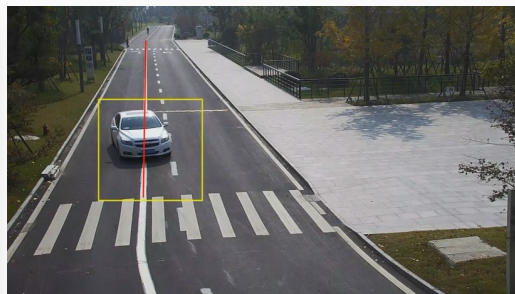
Personnel tripwire crossing detection



Area intrusion detection



Climbing detection



Vehicle tripwire crossing detection

Functions:

- Extracting moving objects from a camera's field of view and generating an alarm when an object crosses a specified area.
- Setting the minimum number of people in an alarm area.
- Setting the alarm triggering time.
- Setting the algorithm detection period.

Scenarios:

- Identification of unauthorized access to key areas
- Identification of unauthorized access to dangerous areas
- Climbing detection

Advantages:

- ✓ **High flexibility:** settings of the size and type of an alarm object
- ✓ **Low misreporting rate:** people/vehicle-based intrusion alarm, without interference from other objects
- ✓ **Ease-of-use:** compatible with any 1080p surveillance camera

