

AIVA

Artificial intelligence for Video Analysis

AIVA includes the best basic features of Artificial Intelligence algorithms for video analysis, which we can identify as Level I capabilities (integrated use of machine learning and deep learning algorithms for detection, recognition, segmentation). The composite management of these skills, driven by a great command of Data Science techniques, has allowed us to build Level II skills (recognition of complex situations, actions, mutual correlation between objects and people, flows). By integrating the Data Science techniques with the process knowledge of specific application domains, it was possible to build Level III skills (for example the monitoring and management of privileged access areas).

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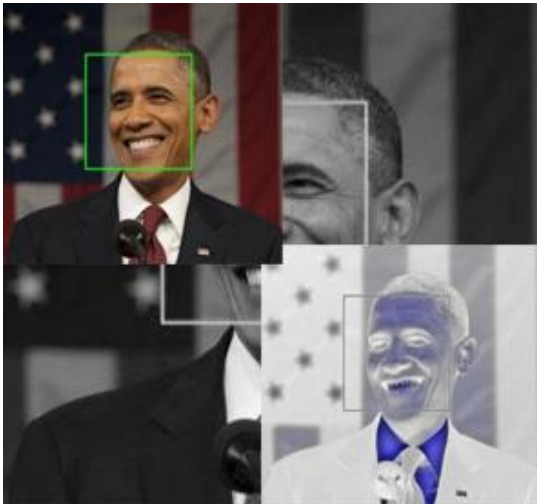
AI level I

- Face detection
- Face recognition
- People detection
- Pet detection
- Multiple object detection
- Object correlation
- Human body Motion Detection
- Detection della posizione di oggetti
- Detection della velocità di oggetti



AI level II

- Detection of the state of anxiety
- Detection of the improper use of a device
- Detection of a request for help
- Detection of scenes of violence
- Detection of an abandoned and / or out of place object
- Detection of abnormal behavior
- Prediction of access flows to an area
- Management of flows in a crowded area



AI level III

- Virtual camera consisting of dynamic composition of fixed and mobile cameras
- Stock availability prediction
- Optimization of cooling devices based on IR images
- Monitoring and management of areas (IT and Security) with privileged access
- Monitoring and management of flows in hospital routes
- Augmented reality

