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Herta & Wavestore

Recognising the power of partnership for improved surveillance

The synergy between Wavestore's powerful open platform Video Management Software (VMS) and Herta Security's Facial Recognition software, makes for a perfect partnership.

With end-users looking to achieve maximum return on their investment in security, it is not surprising that face recognition software is increasingly being specified as an integral component of video surveillance systems.

Wavestore's open platform philosophy allows it to cooperate with video analytics solution providers such as Herta, whose software has been built for a specific purpose and are the best in their respective fields. As a result of the technology partnership which has been established between the two companies, our mutual customers are able to capitalise on the benefits which Herta face recognition software can offer.

Herta Security

Herta Security is a world leader in the development of cutting edge facial recognition solutions, with fast, accurate, robust, end-customer oriented solutions for video surveillance, access control, and marketing requirements. Herta software can dynamically compare images of individuals from incoming video streams against specific databases and immediately send alerts when a positive match occurs. It has a real-time multi-recognition capability in highly crowded environments and can also search a database of 500,000 faces in less than one second to find a single face using a PC.

- Unaffected by changes in illumination, pose, angles and partial face occlusions
- Instantaneously trigger customisable responses when a positive match occurs
- On-the-fly video enrolment
- Direct PTZ cameras and switch display contents to the identification area
- Real time video analysis of 1080p HD video sequences at 40 FPS
- Access Control integrated with facial recognition improves ability to restrict access to sensitive areas
- Demographic Statistics: identify gender, age range and ethnicity to deliver relevant promotional messages
- Surveillance: analysis of watch lists to recognise known unwanted visitors, VIPs and staff.
- Loss prevention and security departments can quickly identify known thieves.

The Benefits

Herta's integration with the Wavestore VMS offers a powerful tool to recognise subjects on one camera, and then track them using additional cameras connected to the system. Identification of a subject within the Herta software can prompt alarms and specific actions within the Wavestore

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VMS, as well as automatically send a video clip or message to users, or trigger a door to open.

ROI (Return on Investment) is enhanced with a combined Herta and Wavestore solution which enables cameras to be used for multiple purposes, from standard security applications to collation of demographic visitor/customer data.

Solutions

There are many different ways in which face recognition software has recently been effectively deployed either to combat criminal activity, identify potential terrorist threats or just to improve business efficiency. For example, BioSurveillance face recognition software is being used at train stations to identify known suspects and in stadiums, it has been used to identify potential troublemakers attempting to enter one of the stadium's entrances.

Face recognition software is particularly effective in retail environments where thieves are known to security personnel and the police. For example, police and professional retail organisations have cooperated with the help of face recognition software to reduce the incidents of criminal activity in jewellery stores. Video surveillance cameras have been installed at each of the stores taking part in the project and the images captured by the cameras are analysed by face recognition software to match faces against a database of criminals maintained by the local police department.

Another very good example of the effectiveness of Herta face recognition software can be seen in casinos that attract the rich and famous from all over the world. The casinos had been employing physiognomists (face recognition experts) for many years who used a book of photos to identify persona non grata, as well as a separate book containing photos of VIPs, so that the casino's management could be alerted if any of them entered the casino.

The main challenge set for Herta was for the software to offer automatic enrolment from live video with new faces being incorporated into the database without supervision, and "on-the-fly". The software needed to be able to cope with several people entering the casino at the same time. It also needed to be able to robustly cope with changes in lighting, pose, expression and moderate rotations of the face, as well as partial occlusions of the face, such as when a person is wearing sunglasses, a cap or a scarf. Success in these difficult conditions has resulted in interest and orders from casinos worldwide.

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