

Automatic identification of persons

VITUS increases the success rate

The task

The VITUS whole-body scanner and the face scanner of the same name can go a long way towards providing a solution to a problem which has not been solved satisfactorily until now: the identification of persons via the automatic interpretation of images supplied by surveillance cameras.

Surveillance cameras are to be found everywhere – in stations, subways, department stores, banks and in front of public buildings. They store their images in video recorders. The tapes can only be interpreted with a disproportionate amount of effort.

Benefit

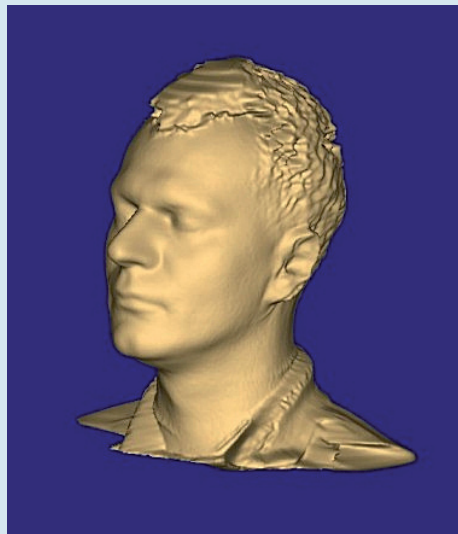
Many different approaches to searching through these images for wanted persons have been tried in the past and have failed sooner or later. The automatic comparison of video images and stored photographs of wanted persons only rarely provided a usable result. The image on the wanted photograph can differ considerably from that of the surveillance camera.

Implementation

VITUS now allows persons to be reliably identified automatically.

If, when subjected to registration of identity by the police, a person is registered not via a camera but using VITUS pro his body and face are stored three-dimensionally.

In addition, as with two-dimensional photographs, the colour is also registered and stored.



Two-dimensional views seen from different viewing positions can be calculated from the three-dimensional data record in video quality. The distance to the object can also be defined as a parameter. If the position of the surveillance camera and its focal distance are specified as parameters and distance and viewing angle are determined, a two-dimensional view can be computed from the three-dimensional body scan. The view thus computed can then be compared automatically with the two-dimensional photographs of the wanted person.