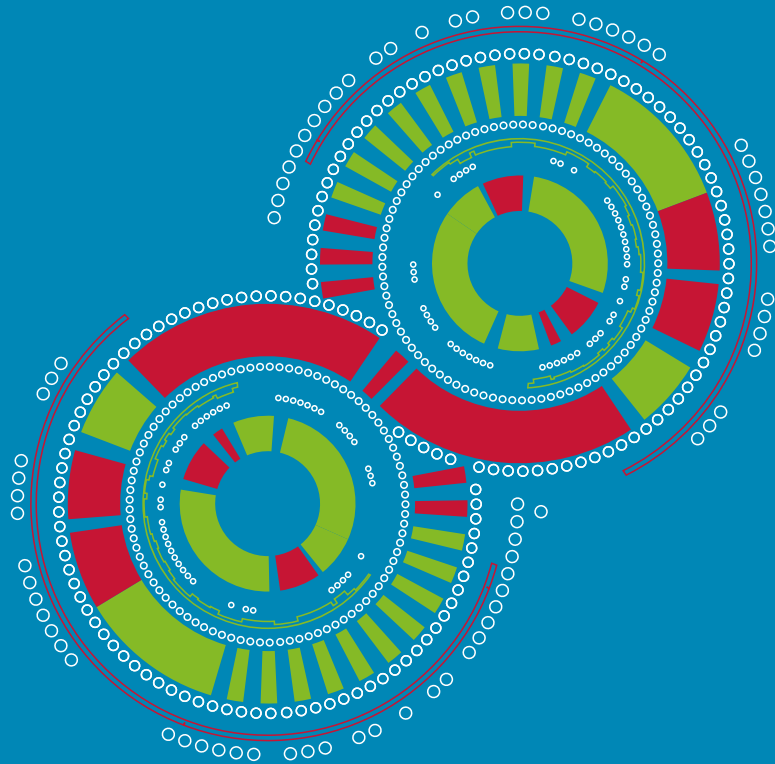
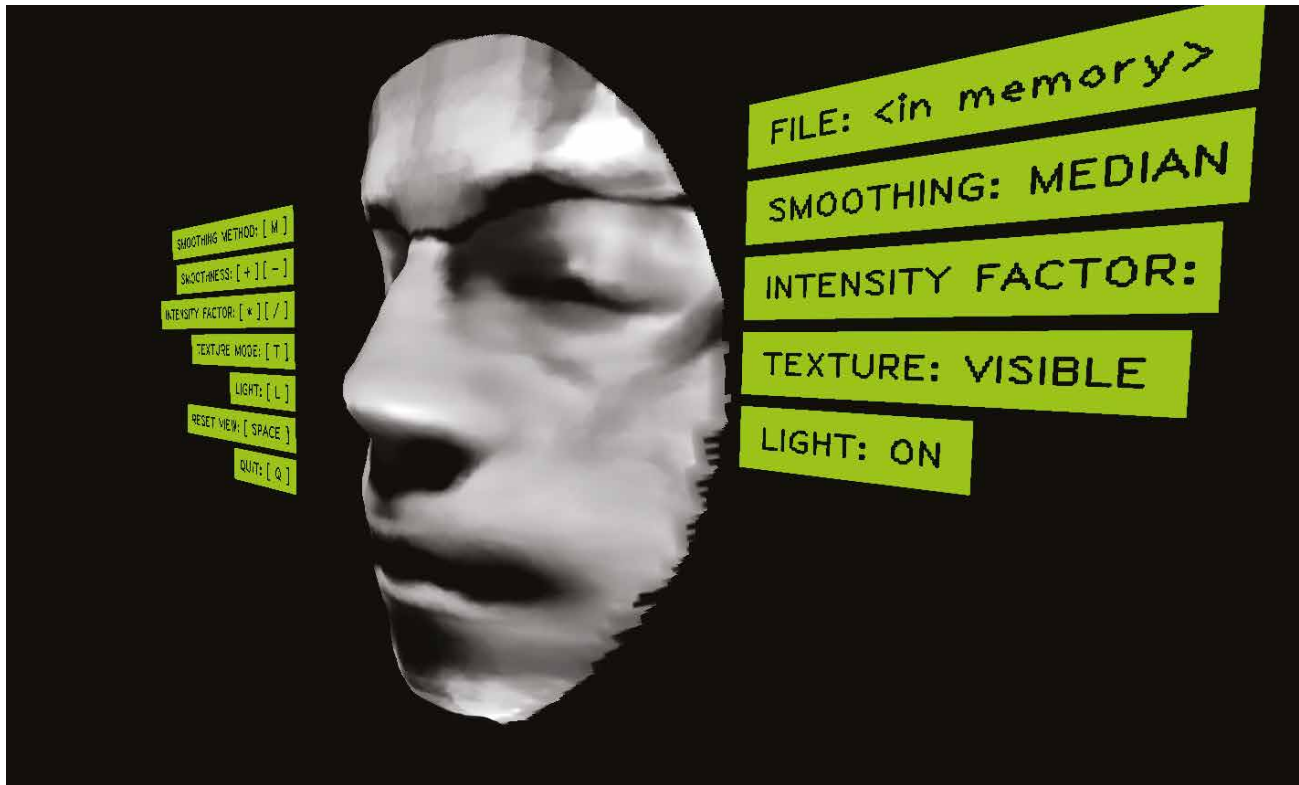




*THE IRISH SOFTWARE
RESEARCH CENTRE*



Self-learning, Efficient, and Secure Access Control (E-SAC)



Visualization of a face model

Most of today's admission control systems require some kind of interaction. In many cases people who want to pass through the entrance have to enter a password, a pin or they have to swipe a check card. We are developing an admission control system that recognizes individuals from visual features while they walk towards the entrance. A minimum amount of interaction with the system will be required for admission.

There is a wide range of applications for our system as many people have problems interacting with today's admission control systems. Doctors with sterilized hands must not use a pin pad and patients with Parkinson's disease have difficulties swiping a check card due to tremors to name just two examples. Moreover

admission with little interaction is just convenient for everyone else.

To demonstrate the current stage of the project we invite volunteers to create their own 3D face models. Within a single walk towards the sensors both colour and depth data is acquired and aggregated into a normalized representation of the face. The model is visualized interactively and volunteers can, if they wish, contribute their data for evaluation purposes of our prototype.

Such a model and additional features extracted from the data of a person's body will later be used to determine their identity and to permit or deny access to protected areas.

Credits

Demo application: Frederik Gossen (Lero)

Supervisor: Prof. Tiziana Margaria

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