

### 6.1.2 SIFT for banknote or face authentication.

In this project you will study SIFT (Scale Invariant Feature Transform) algorithm for object description and recognition. The SIFT algorithm extracts, from an image, scale and rotation invariant features that are subsequently used for object detection and identification. As a case of study you may test the SIFT approach on e.g. banknote or human face authentication.

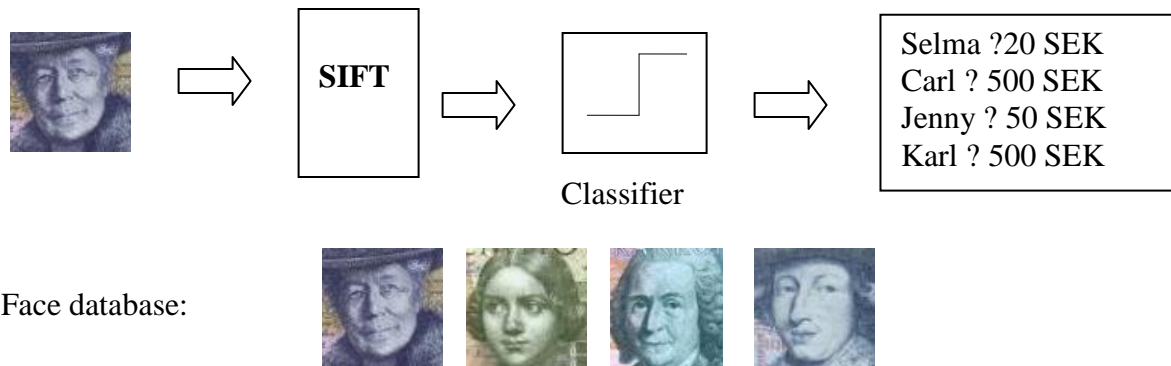


Figure 1: Banknote (or face) authentication system.

Reference:

David G. Lowe, "**Distinctive image features from scale-invariant keypoints**" *International Journal of Computer Vision*, 60, 2 (2004), pp. 91-110. [[PDF](#)] [[Demo software](#)]

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