Signature verifier based on self-organizing feature map

The Kohonen Self-organizing Feature Map (SOFM) has been developed for the clustering of input vectors and has been commonly used as unsupervised learned classifiers. In~this paper we describe the use of the SOFM neural network model for signature verification. The biometric data of all signatures were acquired by a special digital data acquisition pen and fast wavelet transformation was used for feature extraction. The part of authentic signature data was used for training the SOFM signature verifier. The architecture of the verifier and achieved results are discussed here and ideas for future research are also suggested.

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