

Off-line Signature Verification in Conjunction with

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Abstract

As a biometric, signatures have been used to identify people. In the context of off-line processing, the lack of dynamic information such as velocity, pressure and the direction of strokes has made the realization of effective off-line signature verification systems difficult. Compared to their on-line counterparts, off-line systems we propose an effective method for off-line signature verification based on structural features. Structural features are extracted from the signature contour using the Modified Directional Feature Extraction and its extended version: the Enhanced Directional Feature Extraction. Two neural network-based techniques, Support Vector Machines (SVMs) and Artificial Neural Networks (ANNs) were compared for the purpose of signature verification.

