Signature identification and verification systems: a comparative study on the online and offline techniques

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Abstract

Handwritten signature identification and verification has become an active area of research in recent
years. Handwritten signature identification systems are used for identifying the user among all users
enrolled in the system while handwritten signature verification systems are used for authenticating a
user by comparing a specific signature with his signature that is stored in the system. This paper
presents a review for commonly used methods for pre-processing, feature extraction and
classification techniques in signature identification and verification systems, in addition to a
comparison between the systems implemented in the literature for identification techniques and
verification techniques in online and offline systems with taking into consideration the datasets used
and results for each system.

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