

This work aims on missing handwritten signature authentication in Windows. Result of this work is standalone software that allow users to log into Windows by writing signature. We focus on security of signature authentication and best overall user experience.

We implemented signature authentication service that accept signature and return user access token if signature is genuine. Signature authentication is done by comparing given signature to signature patterns by their similarity. Signatures similarity is calculated by dynamic time warp on dynamic signature features such as speed, acceleration and pressure.

User access token is used by our Windows login plugin called signature credential provider to decrypt user credentials and perform log in.

Result of this work is solution that allow user log to windows by handwritten signatures, with equal error rate of 4.17\%.