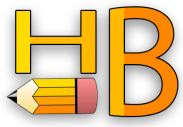

HB (OFFLINE HANDWRITE RECOGNITION SYSTEM)

Objective

Since the beginning of the new millennium technology has been trying to push the human race forward with keyboards, mouse, touch displays and many other Human Interface Devices(HID). But no matter how many technologies comes everyday people are reluctant to leave the HB age* and move to a dotted digital display to draw curves. The objective of project HB is to build the bridge between the pencil and the digital world without sacrificing the HB age or the Digital age.

Goals

The project HB is about designing a system which can recognise free form handwriting on a paper and convert it into a digital text which can be used in any digital system. Penetrating the barrier between handwritten and the digitally written documentation is the main goal behind this. With HB, people will be able to maintain both soft and hard copies of their documents interactively and use the power of the keyboard as well as the pencil.

Solution

The HB handwrite recognition system uses an artificial neural network aka artificial intelligence to recognise the handwriting which allows to recognise different kinds of day to day handwritings. It also ignores the objects which are unidentifiable as letters which could be graphs or sketches or any other kind of drawings.

Project Outline

The HB software can be installed on any computer which has a web cam. As the software uses an artificial intelligence, it should be trained before use. But for ease of use, the software is pre trained with some handwritings. If the end user have an odd writing pattern, or the results are unsatisfactory, he can re-train the system with his handwritings to achieve better results. After the training the user can use the web cam to scan the handwriting and the system outputs the end document with converted text. The user can finally save it either as an pdf or a doc file.

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* HB age - The HB pencil is the ever lasting symbol of handwriting. So The HB age = Handwriting age