

Thesis Title	On-line Hand Printed Thai Characters Recognition with Syntactic Pattern Analysis
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ABSTRACT

Although several researches have developed “hand Printed Thai Characters Recognition”, the solution for on-line process still facing several obstacles. These include difference size, character begins positioning, misshapen and head of character contains with cross line. The purpose of this research is to eliminate the existing problems by using “Syntactic Pattern Recognition Methodology (SPR)”. SPR is composed of two steps include character pattern analysis and recognition. Step 1, Character pattern will analysis line and curves of each character. The captured character pattern are the head of character, circle and curve line inside a character, a straight line for eight directions, and zigzag line. Each character will be separate in to 6 equal part automatically for location the line position and feed the line data to the second step. In the second step will use the line curve in each segment and map it with distinct line pattern of each Thai character.

This research has been tested with 10 tester aging between 21 to 31 years. Each needs to try each character 10 times. Therefor, a tester will write about 4,300 characters, The result show that it can recognition Thai character 3282 character about 76.34 % accuracy.