ABSTRACT

Dactiloscopy is a knowledge that concern to fingerprint in order to find back person's identification by watching line each point of finger's hand or leg's. Classification formula is a decision formula of fingerprint, that is put some marks in each coloum of fingerprint's card, which show the interpretate of main shape, amount of line loop shape, and tracing line of whorl shape. Untill now, identification and decision process of classification formula from some police side are still using conventional way.

Software that realized is use to counting classification formula on whorl shape (the shape that has two or more delta). Counting formula is based on some parameters, that are core position, delta position, ridge counting between core and delta, and ridge tracing on whorl shape. Process to define that points based on fingerprint local design, that show on slices line on hand surface, that preprocessing image has done before.

From the test result, this software can find core, delta, ridge counting, ridge tracing, and classification formula to main shape of whorl kind. The formula resulted is symbols that representate whorl kind, amount of ridge counting and ridge tracing kind. With succesbility level 100% to find core point, 80% to find left delta, 40% to find right delta, 80% to find ridge counting and ridge tracing, and 60% for fingerprint's formula.

Keywords : *dactiloscopy, classification formula, whorl*