

## **ABSTRACT**

### **YOUTH THUMB FORMULA A LOOP USING WDFs METHOD**

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*The fingerprint formula is one way to prevent someone. In the world of policing the fingerprint formula can also be for someone. Until now the police still use conventional way of making fingerprint formula. Therefore the need for software that can make the fingerprint formula automatically.*

*This final project is designed to make the thumbprint formula automatically by using WDFs method, backpropagation method is used for thumbprint classification. In making the thumbprint formulas there are several parameters that must be considered core core, delta and ridge counting.*

*Based on the testing process that has been done, the success rate in core detection reached 49.33%, delta 55.33%, and ridge counted 7.78%. From the results of the success rate in the formulation of thumb prints only reached 9.11%, due to which fingerprint image factor which is too dry and wet core core, delta and ridge counting on the fingerprint image will be obvious so that it can produce core core detection, Delta , And ridge counting is undetectable or detected incorrectly, and at the time of thumbprint formulation will occur in the ridge counting. And the greater the noise in the thumb print image, the determining core, delta and ridge counting will not be detected correctly or can not be detected..*

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*Keywords : Youth Thumb formula, WDFs, Loop.*