

## **Abstract**

*Everyone has something unique that can be implemented as biometry, no exception for gait. Gait can be interpreted as a person's manner of walking. Gait biometry has its own advantages because of the sensors that can work over long distances as the characteristic.*

*This final assignment implement a biometric security gait identification using wavelets and artificial neural network adaptive resonance theory-2. Wavelet will decompose generated gait characteristics with the aim of reducing the amount of data characteristics and take only the importance of these traits, whereas artificial neural network ART-2 functions as a classification. Generally, there are several processes that do are: making characteristic gait of the diameter of the object, wavelet decomposition and classification using artificial neural networks.*

*The output of this system is whether the walking object correctly recognized or not. Test results showed that the system managed to identify individuals with an accuracy reaching 82% with the data sample of 7 individuals.*

**Keywords:** *Biometrics, Gait, Wavelet, Artificial Neural Network ART-2*