# *Abstract*

*Intrusion Detection Systems (IDS) is a good tool to increase network security. But, these tool still has some problem, such as high rate False positive alerts. False positive alerts is happens when IDS produce an alerts for administrator when detecting occurring events that benign, so it is very annoying and spend a lot of processing resource.*

*NEFCLASS is a method that will be used to decrease the false positive alerts in this Final Assignment. NEFCLASS is a result from an hybrid between Artificial Neural Networks (ANN) and Fuzzy systems, resulting a system that not only can explain the logic based on rule base, but also it can do a learning to handle unpredictable events in network's traffic, noisy data, and data that never showed before. NEFCLASS implementation is the right approach to decrease false positve alert on IDS. The result shows that this approach can decrease false positive alert up to* 89,4%

*Keyword: IDS, NEFCLASS, False positive alerts*