

## **ABSTRACT**

*Bandung was the capital of the West Java province that had a considerably large area. Therefore, the number of crime cases is also large. The role of the police in keeping safety and comfort is necessary for the society. At present, the crime reporting system is still initiated manually requiring people to visit local police to report a crime. The result would be a lack of crime handling by the police.*

*This final assignment discusses a crime reporting system using an A\* algorithm to search the shortest route from the crime location to Samapta Bhayangkara (Sabhara) in the handling of criminal case in the field. It can boost the service on handling criminal reports so that it can be quickly responded and can make it easier for police to handle crime reports. The parameter to be measured is accuracy.*

*Based on the test results of the application according to the design, the A\* algorithm testing on this application system corresponds to the results of A\* algorithm manual calculation. Moreover, this reporting system application is highly effective and is expected to reduce crime in Bandung. The results of testing nodes at 98% proved that the more accurate the nodes they produced the route they obtained was also the more accurate.*

**Keywords: A\* Algorithm, Crime, Reporting System.**