

## **ABSTRACT**

*Roads are transportation infrastructure intended for traffic. The high activity of traffic activity causes damage to the road. If not followed up, damage to the road can reduce the comfort and security of the motorists. In this case, to prevent the occurrence of excessive road damage, a system of classifying the type of road cracks was created. This crack type classification system is made based on image processing using the thresholding method with a threshold value parameter of 100 and uses the k-nearest neighbor (knn) algorithm to classify the type of crack. The parameter of the k value in knn used is  $k = 1, 2, 3$ . The accuracy results on the system were 100%, 70%, 60% for training data and 100%, 70%, 70% for test data.*

**Key Words:** *Cracks, image processing, thresholding, k-nearest neighbor (knn).*