

**IMPLEMENTASI *FEATURE EXTRACTION GLCM* UNTUK IDENTIFIKASI
KESEGARAN IKAN TONGKOL MENGGUNAKAN KNN BERBASIS
ANDROID**

*IMPLEMENTATION OF GLCM FEATURE EXTRACTION TO IDENTIFY THE
FRESHNESS OF SWORD USING KNN BASED ON ANDROID*

Pembimbing 1 orang

Muhammad Jamalludin
Study Program Informatics Engineering
Majoring of Information Technology
Program Studi Teknik Informatika
Jurusan Teknologi Informasi

ABSTRACT

Euthynnus affinis is a type of large pelagic fish that is in demand by local people from various circles or foreign countries. Tuna is one of the mainstay fishery commodities from Indonesian waters which is superior and has a high nutritional content of protein and is rich in omega 3 fatty acids. The nutritional content and benefits are not useful if choosing tuna that is not fresh. Researchers tried to create a classification system for tuna freshness using the K-Nearest Neighbor method using GLCM texture feature extraction with parameters of contrast, correlation, homogeneity, and energy. The system can classify 2 classes, namely fresh tuna and non-fresh tuna. The results of the tuna freshness classification system using the K-Nearest Neighbor method obtained the highest accuracy of 90%.

Keyword : *Euthynnus affinis, K-Nearest Neighbor, Gray-Level Co-occurrence matrix*