

# **KLASIFIKASI UMUR LAHAN PERKEBUNAN KELAPA SAWIT MENGGUNAKAN METODE LOCAL BINARY PATTERN (LBP)**

By

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Information submitted to the Faculty of Engineering Program Muhammadiyah University of Gresik on February 15, 2016 to meet most requirements of obtaining an undergraduate degree S-1 Engineering Program Information

## **ABSTRACT**

Oil palm plantations are one of the products that have the highest value and the industry, including labor-intensive. Pengelolaan oil palm plantations up to this time-based block each block comprising one with the smallest units of planting age of 12-30 ha / block. This study makes a system that can see and distinguish the life of a young oil palm plantations, adults, elderly and not the palm oil land. Classifying types of aerial imagery of oil palm plantations based texture features using the K-NN. This system needs some improvement process image, among others: the process of converting to grayscale and test histogram equalization. 400 image that has diidentifikasi to determine the oil palm plantation group based textures using K-NN looking for value of neighborhood closest to K and generates the accuracy of each K is K = 3 (87%) K = 5 (85,5% ) K = 7 (83%) K9 = (81%).

**Kata Kunci:** *Image Processing, Local Binary Pattern, K-Nearest Neighbor .*