

## **SEGMENTATION AND CLASSIFICATION OF BURN DEGREE**

### **USING CONVOLUTIONAL NEURAL NETWORK (CNN)**

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#### **ABSTRACT**

Burn is a damage to skin area of the body that can be caused by heat trauma or cold trauma (frost bite). The causes of burn are, fire, hot water, electricity, chemical, radiation, and cold trauma. Based on the characteristic tissue depth, burns are divided into 3 major classifications, namely superficial, mid, and deep burns. This study aims to segment and classify the degree of burns from image using Convolutional Neural Network (CNN) algorithm. In this research, Mask R-CNN architecture with backbone modification will be used. The best results are obtained on the X101-FPN type backbone by getting an Average Precision (AP) of 53.554.

Keywords : Segmentation, Classification, Burns, CN