

## **ABSTRACT**

*There are still many people who think height is not something important. Routine measurement of height in children is also highly recommended to monitor growth and can prevent stunting. In Indonesia, stunting is a serious problem. Based on data from the 2019 Indonesian Toddler Nutrition Status Survey, stunting in Indonesia has reached 27.7%. This figure is still high compared to the WHO threshold of 20%. The research to be carried out is to create an application that can measure height on digital images and predict the nutritional status of the children being measured. The image will be processed using the ArUco marker and using the Decision Tree algorithm to predict nutritional status. Based on the tests carried out, it can be concluded that the application made can measure height. The greatest accuracy of height measurement is 96.02% and the prediction of stunting is 80% at 150 cm and 90 cm high.*

**Keyword:** *Stunting, image processing, ArUco, body height*