

## ***ABSTRACT***

The body height is the best indicator to measure a child's overall physical growth. This is because height usually does not decrease significantly, whereas weight can change rapidly due to acute illness. Since the height of each child will vary from one another, a height measuring device is needed to monitor the growth of children. In this research, a system that can measure height in children based on digital images is made. This system will use canny in the search for children's height prediction, where the system will detect edges that will later be used as height calculations. The highest system success test was obtained when the retrieval distance was 300 cm with an accuracy rate of 94%. Whereas the 250 cm distance test regarding the prediction of high calculations with an average multiplication factor of 0.926, an accuracy of 96.92% with an error of 3.08%. This shows that the role of the multiplier factor is not very influential only adding a little accuracy to the predicted results of height measurements.

Keywords: Height, Digital image, Canny