

Thesis Title	Poultry Counting and Monitoring System for Stunning Line in Slaughter Plant
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Abstract

Currently, there are many ways for counting the number of chickens before passing them to the stunning process which increases the error in production line. In this project, the new solution for counting the number of chickens is provided using the image processing with Matlab. Image processing can be applied by using the gray scale density value as the indicator. This program communicates with the users via Graphic User Interface (GUI). The examined videos are imported into the program. The program then identifies two areas – the interested and the background areas – for lightness identification. As for the interested area the users set a minimum lightness value and the program will start counting the number of chickens when the lightness value exceeds the minimum value. From this study, this method has been proved to provide the exact number of chickens. It could substantially reduce the error of counting. And this technique can be further applied for counting other industrial and agricultural products.

Keywords : Chickens Counting / Graphic User Interface / Image Processing