

Sunti Sookchalearn 2013: Shrimps Sorter by Machine Vision System. Master of Engineering (Agricultural Engineering), Major Field: Agricultural Engineering, Department of Agricultural Engineering. Thesis Advisor: Associate Professor Vicha Manthamkan, M.Eng. 101 pages.

The current state of higher wages and actively growing. The operators need to improve and develop the production process more efficient. The development of machinery to replace labor, thereby reducing production costs.

The sizing machinery shrimp by vision system was designed and built and the development of a computer program to measure the length of shrimp. In the design of the program has featured a selection of sushi, shrimp, red shrimp. In the eight then. The program will capture the movement of the shrimp, put on the belt. The program will show the size of the shrimp. Performance of the program on the scale shrimp speed belt below the belt speed 0.1 m / s with the 1.29% of the belt speed 0.2 m / s at an 2.19% the speed of the conveyor belt 0.3 m / s. 3.54% of the error between the measurement and statistical analysis with the workers and the Sig < 0.05 show that the error in measuring the shrimp with the belt speeds are significantly different statistically.

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Student's signature

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Thesis Advisor's signature