QUALITY SELECTION OF CABBAGE USING EDGE DETECTION & BLOB COUNTER

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ABSTRACT

Cabbage (Brassica oleracea L. var, capitata L.) is a vegetable plant that in its growth can form spheres such as head or egg (krop). So the quality of cabbage vegetable selection application was made to avoid consumer disappointment. The built-in application uses an image processor that processes an image from a visual catch done by the camera. The image of cabbage photos is processed by several stages of transforming the original image image into grayscale, binary, edge detection, blob counter and then will produce training data. Training data that has been obtained directly in the process with the image of cabbage test photo to know the value of proximity in training data, so it will be concluded that the image of cabbage test is a good quality cabbage and bad. The data used in this study is the primary data in the form of 60 pieces of vegetable cabbage with the details, cabbage vegetables with good quality 34 pieces and poor quality 26 pieces. In this experimental process using 30 data object of vegetable cabbage photo to get good accuracy value, that is with average success rate 81% and 19% failure rate for spotting detection process on cabbage vegetables.

Keyword : cabbage vegetables, Grayscale, Binary, Edge Detection, and Blob Counter.