Abstract

Image processing is effective tool for analysis in various fields and applications in agriculture. Today’s very advanced and automated industries used more accurate method for different inspection processes of agriculture object. This task known as robotics task. In Indian agriculture industry many kind of activities are done like quality inspection, sorting, assembly, painting, packaging. Above mentioned activities are done manually. By using Digital Image processing tasks done conveniently and easily. Using Digital image processing many kind of task fulfills like object Shape, size, color detection, texture extraction, firmness of object, aroma, maturity etc. In this paper various algorithms of shape detection are explained and conclusions are provided for best algorithm even merits and demerits of each algorithm or method are described precisely.

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**Index Terms**

Computer Science  
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**Keywords**

fruit grading, shape, texture, feature extraction, classification