

CONVERT 2D IMAGES TO 3D IMAGE

A dissertation submitted to the
Faculty of Science and Technology, Uva Wellassa University
in partial fulfillment of the requirements for the award of the
Degree of Bachelor of Technology

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October 2013

Abstract

Image processing plays a major role in modern technology. Implementations of this field are varying from simple applications like documentation to complex applications like space context. Before use in the above applications images should be processed using relevant techniques. There is lots of software that can process the images and get the outputs to be use in the above mentioned applications.

To be use in applications like automatic navigation of robots and vehicles, satellite identification and fault diagnosis, medical reasoning and remote surgery, conversion of 2D images to 3D images is important. There are many algorithms which have been developed in order to obtain 3D images using 2D images. Matlab software includes many functions, data types and devices which supports to developing new algorithms.

This algorithm uses stereo images, red, cyan composite images, basic block matching, depth mapping and noise filtering. The final outcome of above steps is a 3D image with fewer errors and less time consuming.