

Edge Detection in Image Pre-Processor

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ABSTRACT

As with any data processing system, pre-processing has to be performed on the input data in order to smoothen the main process later. This report discusses the design and algorithms used in the pre-processor section of an image processing system that is intended to be run on an ADSP2105 processor. Specifically, the processes that will be discussed here are filtering and edge detection. A C program is written to implement these processes as well and the results of the program are displayed and discussed. This system was originally designed to be part of an image processing system that uses stereovision to determine the depth of the subject images. Therefore, the next step towards the implementation of this project is discussed in the conclusion.