

Hardware Implementation of Real-Time Image Segmentation Algorithms using TMS320C6713 DSP and VM3224K2 Daughter Kit

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Abstract— Digital image processing continues to enable the multimedia technology revolution that we are experiencing today. The main purpose of this project is to create a code for implementing license plate segmentation from vehicle image in various luminance conditions. The basic process involves is to take image as input from CCD camera which is to be segmented in DSP board using a very efficient segmentation algorithm based on the analysis of vertical and horizontal histogram with the edge processing methods. In this paper we have also used DSP Simulink Blocksets in MATLAB for simulation purposes and C6713 DSK, Code Composer Studio v3.1 for code developing and implementation. The segmentation technique and proposed algorithm were well implemented practically in real-time by using the floating-point processor TMS320C6713 DSP chip manufactured by Texas Instruments. VM3224K2 Daughter Kit (LCD) is embedded with DSK6713 Kit to display the output image also L2 cache memory and the compiler optimization techniques were tuned for best performance improvement.

Keywords— TMS320C6713, VM3224K2 Kit, Code Composer Studio, Segmentation, Edge Detection, Thresholding Techniques

I. INTRODUCTION

Image processing is a method to perform some operations on a digital image in order to get an enhanced image or to extract hidden information that can be interpreted and used to several purposes. Image segmentation has a promising future as the universal segmentation algorithm and has become the focus of contemporary research; it's an integral step in any image processing that some applications requires a simple division of image into homogeneous regions while others require more accurate detection, so for this reason we need a special unit like a DSP processor that we use for digital signal and image processing in real time and high-speed data transfer.

Digital signal processor is one of the core technologies in rapidly growing application that become a key component in many domains. A C6x processor can be used as a standard general-purpose digital signal processor programmed for a specific application. DSP is generally more expensive since it has more real estate. Several factors, such as cost, power consumption, and speed, come into play when choosing a DSP. The Specific-purpose digital signal processors are available with different feature, such as faster execution speed,

Digital signal processors such as the TMS320C6x family of Texas Instruments are like fast special purpose microprocessors with a specialized type of architecture and an instruction set appropriate for signal processing. All DSP techniques have been very successful because of the development of low-cost software and hardware support. TMS320C6x DSP is considered to be TI's most powerful processor for applications requiring intensive computations.

II. DIGITAL IMAGE PROCESSING

An image defined as a two-dimensional function $f(x, y)$; x and y are spatial coordinates. The amplitude of the 2D function f at any pair of coordinates (x, y) is called intensity or gray level of the image at that point. When f , x and y are all finite and discrete quantities, these elements are referred to as pixels. These amplitudes composed as a vector of data where the Color image has three components RGB at each point. License plate recognition is a type of technology, mainly software that enables computer systems to read automatically the registration number of vehicles from digital RGB images.

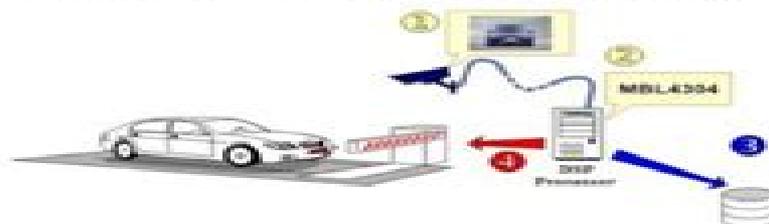


Fig. 1. Automatic Number Plate Recognition System (ANPR)

RGB image is a 3-dimensional combination of RED, BLUE and GREEN colors. In our work we have represented the input image using Y-Cb-Cr format then we displayed by converting into RGB format using the mathematical equations:

$$R = Y + 1.402 (Cr-128) \quad (1)$$

$$G = Y - 0.34414 (Cb-128) - 0.71414 (Cr-128) \quad (2)$$

$$B = Y + 1.772 (Cb-128) \quad (3)$$

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