A Parallel Image Processing System Based on DSP Arrays

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ABSTRACT

Parallel image processing is very important for high-speed vehicle detection in ITS (Intelligent Transport System). In this paper, a parallel image processing system that is based on one-dimensional DSP arrays is presented. This system integrates parallel memory access and parallel processing technologies to suit for the parallel all kinds of parallel algorithms, so that it can get better preference of processing than other architectures.

Keywords: parallel processing; image; DSP; neighborhood frame memory, ITS