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基于GAS的图像跟踪系统及其实现方案

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TRACKING SYSTEM BASED ON GENETIC ALGORITHM AND ITS HARDWARE SCHEME

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摘要

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摘要 利用遗传优化算法实现了一个目标跟踪系统,将传统的目标搜索、目标分割、目标定位及跟踪状态评估等过程都由遗传算法来实现,使系统结构简单,易于实现。并分析了利用 TMS320C6x实时实现遗传优化跟踪过程的可能性,最后给出了该系统的实现方案

关键词: 遗传算法(GAs) 跟踪系统 目标检测定位

Abstract: A tracking system using genetic algorithms (GAs) is presented. Traditional target hunt, segmentation, localization and evaluation of tracking state are implemented by GAs, which makes the tracking system have a simple structure. The possibility of real-time implementing the system by using a DSP TMS320C6x is analyzed. Finally, a scheme to implement the tracking system is proposed.

Keywords: genetic algorithms tracking system target detection and localization

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