

论文

基于视频图像处理的交通事件检测系统

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摘要:

针对目前公路事件发生后不能及时有效检测与报警、事故处理延迟等不足, 研究开发了一种基于视频图像处理的交通事件检测系统。利用计算机视觉与数字图像处理技术, 对设置在公路上的摄像头采集的视频图像, 进行事件检测算法智能处理, 自动采集各种交通参数, 检测交通事件并及时报警, 可有效地减少交通延误, 防止二次事件发生, 保障道路安全。与传统交通事件检测系统相比, 具有直观方便、费用低等优点, 拥有良好的市场需求和实用价值。

关键词: 智能交通系统 交通事件检测 视频车辆检测 数字图像处理

Traffic incident detection system based on video image processing

Abstract:

Concerning the traffic accident can not be detected effectively and accidents dealing delayed, a system for traffic incident detection and alarm based on video was presented. Using computer vision and digital image processing technology, the video images from the road monitoring camera were processed with intelligent detection algorithm processing, automatic acquire of various traffic parameters and traffic accidents, timely detection alarm. Thus accident dealing delay was reduced and the second incident was prevented. In comparison with the traditional traffic incident detection system, the system is intuitive convenient, low-cost, and has good market demand and practical value.

Keywords: Intelligent Transportation System traffic incident detection video vehicle detection digital image processing

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