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城市交通视频集中监控网络信息平台的关键技术 点击数: 568

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董红召¹ 杨菁² 张建跃³ 周为刚³ 王广鹏⁴
 (1. 浙江工业大学, 杭州 310014; 2. 北京信息工程学院, 北京 100101; 3. 杭州市公安局交警支队科研所, 杭州 310014; 4. 浙江银江科技集团, 杭州 310012)

摘要: 路口视频监控是城市交通管理的重要方法。随着信息技术的发展, 视频监控系统逐渐转向依靠网络信息平台来提高交通管理的快捷反应能力。探讨了城市交通视频集中监控网络信息平台的若干关键技术, 首先对适合于交通视频监控的视频编码技术进行了分析比较, 并阐述了对庞大视频数据进行处理的超级并行计算平台, 同时探讨了适合爆发量数据存储、访问的SAN(区域网络存储)海量存储技术等。最后, 以杭州市道路交通监控的具体需求为例, 重点介绍了如何实现城市交通视频监控网络信息平台及其关键技术。

关键词: 城市交通; 视频监控; 网络信息平台

Key Technology of the Networked Video Supervising System for Urban Traffic

DONG Hongzhaol, YANG Jing2, ZHANG Jianyue3, ZHOU Weigang3, WANG Guangpeng4
 (1. Zhejiang University of Technology, Hangzhou 310014, China; 2. Beijing Information Technolgy Institute, Beijing 100101, China; 3. Institute of Traffic Control, Hangzhou Police Office, Hangzhou 310014, China; 4. Zhejiang Enjoyor Technology Corporation Group, Hangzhou 310012, China)

Abstract: The video supervision on crossings is of great importance to the management of urban traffic. With the development of internet information technology, video supervisory system turns its steps to utilize the internet information platform to meet expeditious flexible requirements of traffic management. Thus, this paper studies several key technologies to internet information platform of video supervising of urban traffic. Firstly the video encoding technology is analyzed how to fit into traffic video supervision. The clustering computing platform is also elucidated to solve super computing issues. Then one of the mass-storage technology, SAN (Storage Area Network) is discussed to implement the storage and access of tremendous video data. Finally, on the basis of road traffic supervisory system in Hangzhou city, the platform has been implemented to prove its feasibility and efficiency.

Keywords: urban traffic; video supervising system; network platform