

# FPGA design of a camera control system for road traffic monitoring

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**Abstract**—Video surveillance and monitoring more than a decade now remains a big challenge. Today is becoming more and more vital due to rapid development of hardware equipments as well as the software methods that support intelligent monitoring and analytics. This paper proposes the architecture of a FPGA design of a camera controller for surveillance that could be applied for road traffic monitoring and image data management purposes. The proposed system could deal with real-time monitoring of persistent and transient objects within the specific environment of a motorway or crossroad, taking input from a camera. Functional models were synthesized in VHDL. The design and simulations analysis were carried out within Quartus II Altera software package while further analysis was also performed with ModelSim. The functional performance and operation of the proposed design was evaluated based on such simulations and analysis.

**Keywords**—*monitoring; camera controller; FPGA design; simulations*

## I. INTRODUCTION

Video surveillance systems that use analog CCTV cameras and interfaces as the basis are not easily expandable, and have low video resolution with little or no signal processing. However, next generation of video surveillance systems with digital LAN cameras, that support complex image processing, and video-over-IP routing are more intelligent and allow further scalability and flexibility [6], [7], [8]. In this direction, programmable modules, with or without embedded DSP blocks, with memory blocks, several interfaces, and other units, fulfill the new contemporary system requirements [5], [12].

Today several systems are designed on the same chip, based on a Field Programmable Gate Array (FPGA), for intelligent and fast data processing and miniaturization of the system. Particularly, in modern surveillance systems, FPGA-based intelligent controllers play an important role in improving the performance of the camera control system [2], [3], [4], [16], [19].

The purpose of this paper is to present first results of an ongoing research project on the implementation of a smart camera control system for traffic surveillance based on a

FPGA. The problem of providing automated vision surveillance on an efficient way that last years has been intensively examined [10], [11], [13]. Today there is a rapid development of such systems towards intelligent control units [1], [9], [15] and several algorithms have been proposed towards this direction [14], [17].

In this research, the system proposed captures a video stream, computes traffic information and performs on chip video analytics and finally transfers the video stream and the traffic information to a host PC in order to be generated further alarm signals and events to be triggered according to various traffic situations. The objective of the paper is to describe the design of an intelligent surveillance system within an academic environment for traffic monitoring purposes. The proposed architecture incorporates a camera controller that obtains traffic images and performs analytics. It performs contour identification, axis specification, axis shift, percent zoom, smooth, etc., as well as facilities for mathematical and statistical analysis of the numerical data (pedestrians, cars, etc.), such as: densities, deviations, aggregates, etc.

In section II is described the design methodology followed and the goals aimed to be achieved. In section III the system architecture is detailed and section IV discusses the simulations carried towards the evaluation of system's functionality. Finally, section V presents a brief discussion and conclusions on the proposed system.

## II. DESIGN METHODOLOGY AND GOALS

### A. Design Approach

The overall design of the IP surveillance camera controller is to be implemented as a complete system on a chip using a FPGA device. An FPGA-based architecture is quite flexible and customizable, to such extend that easily allows a system architecture to be enhanced and modified according to various system specifications and requirements. Thus FPGA architectures are easily reconfigurable.

In addition, in our case study of remote traffic monitoring would be possible to add custom video processing software in real time (video analytics) and system upgrades (i.e. a new

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## **Table of Contents Eighth International Conference On Road Traffic Monitoring And Control**

1. Understanding the eBook Eighth International Conference On Road Traffic Monitoring And Control
  - The Rise of Digital Reading Eighth International Conference On Road Traffic Monitoring And Control
  - Advantages of eBooks Over Traditional Books
2. Identifying Eighth International Conference On Road Traffic Monitoring And Control
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Eighth International Conference On Road Traffic Monitoring And Control
  - User-Friendly Interface
4. Exploring eBook Recommendations from Eighth International Conference On Road Traffic Monitoring And Control
  - Personalized Recommendations
  - Eighth International Conference On Road Traffic Monitoring And Control User Reviews and Ratings
  - Eighth International Conference On Road Traffic Monitoring And Control and Bestseller Lists

5. Accessing Eighth International Conference On Road Traffic Monitoring And Control Free and Paid eBooks
  - Eighth International Conference On Road Traffic Monitoring And Control Public Domain eBooks
  - Eighth International Conference On Road Traffic Monitoring And Control eBook Subscription Services
  - Eighth International Conference On Road Traffic Monitoring And Control Budget-Friendly Options
6. Navigating Eighth International Conference On Road Traffic Monitoring And Control eBook Formats
  - ePub, PDF, MOBI, and More
  - Eighth International Conference On Road Traffic Monitoring And Control Compatibility with Devices
  - Eighth International Conference On Road Traffic Monitoring And Control Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Eighth International Conference On Road Traffic Monitoring And Control
  - Highlighting and Note-Taking Eighth International Conference On Road Traffic Monitoring And Control
  - Interactive Elements Eighth International Conference On Road Traffic Monitoring And Control
8. Staying Engaged with Eighth International Conference On Road Traffic Monitoring And Control
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Eighth International Conference On Road Traffic Monitoring And Control
9. Balancing eBooks and Physical Books Eighth International Conference On Road Traffic Monitoring And Control
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Eighth International Conference On Road Traffic Monitoring And Control
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Eighth International Conference On Road Traffic Monitoring And Control
  - Setting Reading Goals Eighth International Conference On Road Traffic Monitoring And Control
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Eighth International Conference On Road Traffic Monitoring And Control
  - Fact-Checking eBook Content of Eighth International Conference On Road Traffic Monitoring And Control
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### **14. Embracing eBook Trends**

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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