

# An Enhanced Background Subtraction Algorithm for Smart Surveillance System Using Adaptive Gaussian Mixture Technique

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**Abstract**— Surveillance is an important component of secure infrastructure. People need to ensure that their properties, homes, friends, families, and valuables are protected from intruders. In this article, we developed an enhanced background subtraction algorithm for smart surveillance of homes under changes in illumination. An adaptive Gaussian Mixture technique was applied to improve the conventional background subtraction technique for smart surveillance system by reducing false positives and improving the system performance in motion detection. The developed smart surveillance system has the ability to send notifications containing intruder's image to registered email account and short message system to registered phone number whenever motion is detected. The performance evaluation of developed algorithm showed a sensitivity of 89%, specificity of 92% and an accuracy of 93.56%. This system works in conditions of illumination changes and can be adopted in motion detection for home surveillance.

**Keywords**— Background Subtraction, Motion detection, Receiver Operating Characteristics, Short Message Service, Specificity, Sensitivity, Surveillance, Smart

## 1. INTRODUCTION

As an essential component of many security associations' priorities, video surveillance has demonstrated its importance and benefits many times by providing immediate supervision of possessions, people, the environment and property [1]. The demand for video surveillance systems is increasing rapidly nowadays. One of the first things important to people is about their monitoring system, whether or not they have the ability to connect to it via the Internet for remote viewing. In the past, security systems had to be monitored by a guard who was locked in a room all day to monitor the video feeds to make sure nothing happened [2]. The other option was to come back and view the video footages, but at that instance, damage might be caused to the stored images under monitoring. Therefore, researchers and scientists have had to find ways to overcome this problem and thereby improve overall safety.

Simply, Surveillance can be defined as the process of closely monitoring changing information like activities, conducts, behaviors for the purpose of protecting, managing, influencing and directing people [3]. The word surveillance is derived from two French words: "sur" which means "over" and "veiller" meaning "watch" which is in turn derived from the Latin word "vigilare" and is in contrast

to more recent developments such as sousveillance [4]. Surveillance could also mean watching over from a distance by means of electronic equipment such as Close Circuit Television (CCTV) cameras [5]. Surveillance is very helpful to law enforcement agents to investigate and prevent criminal activities, for recognizing and monitoring possible threats to an infrastructure. Basically, the design of a surveillance system consists of analyzing the needs of the people, reviewing the system costs based on existing hardware and software technologies, monitoring choices and then planning for the installation [6]. The design choices may vary from time to time due to advancement in technology. Surveillance system has always been playing a vital role in dealing with the burglary cases and protection of entire perimeter of an infrastructure [7].

Moving object detection is a critical task for many computer vision applications; the objective is the classification of the pixels in the video sequence into either foreground or background [10]. A commonly used technique to achieve this in scenes captured by a static camera is Background Subtraction (BGS) [11]. Background subtraction is the process of identifying moving objects from the portion of a video frame that differs significantly from a background scene [12]. An Adaptive Gaussian Mixture Technique (AGMT) can be used to detect motion or intruders by alerting the user of possible intrusion of infrastructure under surveillance.

In this contribution, we develop a smart surveillance system using AGMT to improve the basic BGS technique in motion detection. The problem of the BGS techniques are: inability to adapt to illumination changes, inability to mask areas where motion detection is not needed like rotation of fans in homes, surveillance being placed outdoors and the existence of trees moving under the wind which affect surveillance focus [8].

Also, this technique was implemented to avoid the use of motion detection sensors like the passive infrared sensors due to the following drawbacks: high sensitivity which leads to the detection of objects such as rats, improper function in hot areas due to faulty readings caused by an increase in temperature, high rate of maintenance in which a lack of could lead to sensor failure, and high cost of implementation [9]. This work makes use of camera for both video surveillance and motion detection simultaneously. In essence, this system improves on the basic background

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## **Table of Contents Embedded Surveillance System Using Background Subtraction**

1. Understanding the eBook Embedded Surveillance System Using Background Subtraction
  - The Rise of Digital Reading Embedded Surveillance System Using Background Subtraction
  - Advantages of eBooks Over Traditional Books
2. Identifying Embedded Surveillance System Using Background Subtraction
  - 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 Embedded Surveillance System Using Background Subtraction
  - User-Friendly Interface
4. Exploring eBook Recommendations from Embedded Surveillance System Using Background Subtraction
  - Personalized Recommendations

- Embedded Surveillance System Using Background Subtraction User Reviews and Ratings
- Embedded Surveillance System Using Background Subtraction and Bestseller Lists
- 5. Accessing Embedded Surveillance System Using Background Subtraction Free and Paid eBooks
  - Embedded Surveillance System Using Background Subtraction Public Domain eBooks
  - Embedded Surveillance System Using Background Subtraction eBook Subscription Services
  - Embedded Surveillance System Using Background Subtraction Budget-Friendly Options
- 6. Navigating Embedded Surveillance System Using Background Subtraction eBook Formats
  - ePub, PDF, MOBI, and More
  - Embedded Surveillance System Using Background Subtraction Compatibility with Devices
  - Embedded Surveillance System Using Background Subtraction Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Embedded Surveillance System Using Background Subtraction
  - Highlighting and Note-Taking Embedded Surveillance System Using Background Subtraction
  - Interactive Elements Embedded Surveillance System Using Background Subtraction
- 8. Staying Engaged with Embedded Surveillance System Using Background Subtraction
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Embedded Surveillance System Using Background Subtraction
- 9. Balancing eBooks and Physical Books Embedded Surveillance System Using Background Subtraction
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Embedded Surveillance System Using Background Subtraction
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Embedded Surveillance System Using Background Subtraction
  - Setting Reading Goals Embedded Surveillance System Using Background Subtraction
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Embedded Surveillance System Using Background Subtraction
  - Fact-Checking eBook Content of Embedded Surveillance System Using Background Subtraction

- 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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