IJARSCT
International Journal of Advanced Research in Science, Communication and Technology
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
Volume 5, Issue 8, May 2025
Impact Factor: 7.67

Person Recognition and His Belongings Misplaced Detection

Ms. Chetna Khedkar[1], Prof. Bhramdev Wadibhasme[2], Prof. Anjali Pise[3]
U.G. Student, Department of Computer Science and Engineering[1]
Assistant Professor, Department of Computer Science and Engineering[2,3]
Tulsiramji Gaikwad-Patil Institute of Engineering & Technology, Mohgaon, Nagpur, Maharashtra, India
khedkarchetna97@gmail.com, bramhadeo.cse@tgpcet.com, anjalip.cse@tgpcet.com

Abstract: *Face detection is the process of identifying whether a face is present in an image and, if so, determining its exact location and features. It plays a crucial role in areas like security and surveillance. In this work, we present a facial detection and recognition system that is capable of processing images quickly while maintaining a high rate of accurate detections. While many face detection algorithms are software-based and provide high accuracy, they often take several seconds to analyze a single image. This makes them unsuitable for real-time applications. To overcome this limitation, we propose a simple yet effective hardware-based solution using a Raspberry Pi an affordable, credit card–sized mini-computer. The system is developed using Python, and it supports both real-time face detection and object recognition. We evaluated the system using several standard face image databases under controlled conditions, without noise or blur. Its performance was assessed by calculating the detection rate for each dataset, demonstrating the system's efficiency and potential for real-world applications.*

Keywords: Face detection

DOI: 10.48175/IJARSCT-26914