

# Data Association and Occlusion Handling for Vision-Based People Tracking by Mobile Robots

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## Abstract

This paper presents an approach for tracking multiple persons on a mobile robot with a combination of colour and thermal vision sensors, using several new techniques. First, an adaptive colour model is incorporated into the measurement model of the tracker. Second, a new approach for detecting occlusions is introduced, using a machine learning classifier for pairwise comparison of persons (classifying which one is in front of the other). Third, explicit occlusion handling is incorporated into the tracker. The paper presents a comprehensive, quantitative evaluation of the whole system and its different components using several real world data sets.

*Key words:* AdaBoost, Occlusion Detection, Thermal Vision, Colour Vision, Bayesian estimation

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## 1. Introduction

This paper addresses the problem of people detection and tracking by mobile robots in indoor environments. A system that can detect and recognise people is an essential part of any mobile robot that is designed to operate in populated environments. Information about the presence and location of

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## **Table of Contents Improved Data Association And Occlusion Handling For**

1. Understanding the eBook Improved Data Association And Occlusion Handling For
  - The Rise of Digital Reading Improved Data Association And Occlusion Handling For
  - Advantages of eBooks Over Traditional Books
2. Identifying Improved Data Association And Occlusion Handling For
  - 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 Improved Data Association And Occlusion Handling For
  - User-Friendly Interface
4. Exploring eBook Recommendations from Improved Data Association And Occlusion Handling For
  - Personalized Recommendations

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

- 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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