

# 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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# Improved Data Association And Occlusion Handling For

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## **Improved Data Association And Occlusion Handling For:**

*Image Analysis and Recognition* Mohamed Kamel, Aurélio Campilho, 2015-07-03 This book constitutes the thoroughly refereed proceedings of the 12th International Conference on Image Analysis and Recognition ICIAR 2015 held in Niagara Falls ON Canada in July 2015 The 55 revised full papers and 5 short papers presented were carefully reviewed and selected from 80 submissions The papers are organized in the following topical sections image quality assessment image enhancement image segmentation registration and analysis image coding compression and encryption dimensionality reduction and classification biometrics face description detection and recognition human activity recognition robotics and 3D vision medical image analysis and applications

**Computer Vision -- ACCV 2012** Kyoung Mu Lee, Yasuyuki Matsushita, James M. Rehg, Zhanyi Hu, 2013-03-27 The four volume set LNCS 7724 7727 constitutes the thoroughly refereed post conference proceedings of the 11th Asian Conference on Computer Vision ACCV 2012 held in Daejeon Korea in November 2012 The total of 226 contributions presented in these volumes was carefully reviewed and selected from 869 submissions The papers are organized in topical sections on object detection learning and matching object recognition feature representation and recognition segmentation grouping and classification image representation image and video retrieval and medical image analysis face and gesture analysis and recognition optical flow and tracking motion tracking and computational photography video analysis and action recognition shape reconstruction and optimization shape from X and photometry applications of computer vision low level vision and applications of computer vision

**Advances in Swarm Intelligence** Ying Tan, Yuhui Shi, Wenjian Luo, 2023-07-07 This two volume set LNCS 13968 and 13969 constitutes the proceedings of the 14th International Conference on Advances in Swarm Intelligence ICSI 2023 which took place in Shenzhen China China in July 2023 The theme of this year s conference was Serving Life with Swarm Intelligence The 81 full papers presented were carefully reviewed and selected from 170 submissions The papers are organized into 12 cohesive sections covering major topics of swarm intelligence research and its development and applications The papers of the second part cover topics such as Swarm Robotics and UAV Machine Learning Data Mining Routing and Scheduling Problems Stock Prediction and Portfolio Optimization ICSI Optimization Competition

**Proceedings** IEEE Computer Society, 2001 Annotation Contains 12 papers from a July 2001 workshop on visual tracking of multiple objects in computer vision Topics discussed include unified multi camera detection and tracking using region matching maintaining the identity of multiple vehicles as they travel through a video network tracking body parts of multiple people joint likelihood methods for mitigating visual tracking disturbances and combined segmentation and tracking of overlapping objects with feedback Other subjects include tracking and recognizing two person interactions in outdoor image sequences multiple camera fusion for multi object tracking tracking multiple people with a multi camera system and engineering statistics for multi object tracking This volume lacks a subject index c Book News Inc

*Journal of the American Medical Association* American Medical Association, 1925

*Learning to Extract Interesting Events from Outdoor Image Sequences* Harini Veeraraghavan,2006      **RFID, Microwave Circuit, and Wireless Power Transfer Enabling 5/6G Communication** Nwajana, Augustine O.,2025-02-18

The development of future 5G and 6G technologies is critical to meeting the increasing demand for faster more reliable wireless communication as global connectivity expands By addressing challenges like low data rates and high latency these advancements will enable seamless integration of smart cities autonomous vehicles and immersive virtual experiences As the number of connected devices grows exponentially next generation networks will play a pivotal role in supporting innovations across healthcare education and industry The evolution of wireless communication not only enhances efficiency but also drives economic growth and societal progress by enabling new digital ecosystems However the push for faster networks underscores the need for ongoing research and collaboration to overcome technical and infrastructural barriers RFID Microwave Circuit and Wireless Power Transfer Enabling 5 6G Communication explores how advancements in RFID microwave circuit design and wireless power transfer are shaping the development of 5G and 6G communication networks It delves into the practical applications of these technologies highlighting their transformative impact across industries like healthcare logistics and security Covering topics such as artificial intelligence AI network architecture and vehicle communication this book is an excellent resource for academicians researchers engineers policymakers students and more

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**Japanese Technical Abstracts** ,1986      **Dissertation Abstracts International** ,2003      *Chemical News and Journal of Physical Science* William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1912

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