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

Grzegorz Cielniak*,a, Tom Duckett a, Achim J. Lilienthal b

a School of Computer Science, University of Lincoln,
LN6 7TS Lincoln, United Kingdom
b Centre for Applied Autonomous Sensor Systems, Örebro University,
SE-701 82 Örebro, Sweden

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

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

*Corresponding author. Tel.: +44 1522 837398; fax: +44 1522 886974.
Email addresses: gcielniak@lincoln.ac.uk (Grzegorz Cielniak),
tduckett@lincoln.ac.uk (Tom Duckett), achim.lilienthal@tech.oru.se (Achim J. Lilienthal)

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presented together with 24 short and 2 poster papers were carefully reviewed and selected from 142 submissions The papers are organized in the following topical sections Image Processing Image Analysis Signal Processing Techniques for Ultrasound Tissue Characterization and Imaging in Complex Biological Media Advances in Deep Learning Deep Learning on the Edge Recognition Applications Medical Imaging and Analysis Using Deep Learning and Machine Intelligence Image Analysis and Recognition for Automotive Industry Adaptive Methods for Ultrasound Beamforming and Motion Estimation *Journal of the American Medical Association* American Medical Association,1925 Mixed Scale Motion Recovery James Edward Davis,2002 **Intracranial Atherosclerotic Disease: Epidemiology, Imaging, Treatment and Prognosis** Xinyi Leng,David S. Liebeskind,Shyam Prabhakaran,Jin Soo Lee,Alex Abou-Chebl,2021-12-29 *The Chemical News* ,1912

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Annual Report of the Trustees of the Syracuse State Institution for Feeble-Minded Children for the Year … Syracuse State Institution for Feeble-Minded Children (N.Y.),1892 **Cerebral Vascular Disease** ,1977 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

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