

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

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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Modeling, Simulation and Visual Analysis of Crowds Saad Ali,Ko Nishino,Dinesh Manocha,Mubarak Shah,2013-11-22

Over the last several years there has been a growing interest in developing computational methodologies for modeling and analyzing movements and behaviors of crowds of people This interest spans several scientific areas that includes Computer Vision Computer Graphics and Pedestrian Evacuation Dynamics Despite the fact that these different scientific fields are trying to model the same physical entity i e a crowd of people research ideas have evolved independently As a result each discipline has developed techniques and perspectives that are characteristically their own The goal of this book is to provide the readers a comprehensive map towards the common goal of better analyzing and synthesizing the pedestrian movement in dense heterogeneous crowds The book is organized into different parts that consolidate various aspects of research towards this common goal namely the modeling simulation and visual analysis of crowds Through this book readers will see the common ideas and vision as well as the different challenges and techniques that will stimulate novel approaches to fully grasping crowds

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 - ECCV 2012 Andrew Fitzgibbon,Svetlana Lazebnik,Pietro Perona,Yoichi Sato,Cordelia Schmid,2012-09-26 The seven volume set comprising LNCS volumes 7572 7578 constitutes the refereed proceedings of the 12th European Conference on Computer Vision ECCV 2012 held in Florence Italy in October 2012 The 408 revised papers presented were carefully reviewed and selected from 1437 submissions The papers are organized in topical sections on geometry 2D and 3D shapes 3D reconstruction visual recognition and classification visual features and image matching visual monitoring action and activities models optimisation learning visual tracking and image registration photometry lighting and colour and image segmentation

Advances in Multimedia Modeling Shipeng Li,Abdulmotaleb El Saddik,Meng Wang,Tao Mei,Nicu Sebe,Shuicheng Yan,Richang Hong,Cathal Gurrin,2013-01-05 The two volume set LNCS 7732 and 7733 constitutes the thoroughly refereed proceedings of the 19th International Conference on Multimedia Modeling MMM 2012 held in Huangshan China in January 2013 The 30 revised regular papers 46 special session papers 20 poster session papers and 15 demo session papers and 6 video browser showdown were carefully reviewed and selected from numerous submissions The two volumes contain papers presented in the topical sections on multimedia annotation I and II interactive and mobile multimedia classification recognition and

tracking I and II ranking in search multimedia representation multimedia systems poster papers special session papers demo session papers and video browser showdown

Pedestrian and Evacuation Dynamics 2012 Ulrich Weidmann,Uwe Kirsch,Michael Schreckenberg,2014-04-23 The 6th International Conference on Pedestrian and Evacuation Dynamics PED2012 showcased research on human locomotion This book presents the proceedings of PED2012 Humans have walked for eons our drive to settle the globe began with a walk out of Africa However much remains to discover As the world moves toward sustainability while racing to assess and accommodate climate change research must provide insight on the physical requirements of walking the dynamics of pedestrians on the move and more We must understand predict and simulate pedestrian behaviour to avoid dangerous situations to plan for emergencies and not least to make walking more attractive and enjoyable PED2012 offered 70 presentations and keynote talks as well as 70 poster presentations covering new and improved mathematical models describing new insights on pedestrian behaviour in normal and emergency cases and presenting research based on sensors and advanced observation methods These papers offer a starting point for innovative new research building a strong foundation for the next conference and for future research

Computer Vision - ACCV 2022 Lei Wang,Juergen Gall,Tat-Jun Chin,Imari Sato,Rama Chellappa,2023-03-10 The 7 volume set of LNCS 13841 13847 constitutes the proceedings of the 16th Asian Conference on Computer Vision ACCV 2022 held in Macao China December 2022 The total of 277 contributions included in the proceedings set was carefully reviewed and selected from 836 submissions during two rounds of reviewing and improvement The papers focus on the following topics Part I 3D computer vision optimization methods Part II applications of computer vision vision for X computational photography sensing and display Part III low level vision image processing Part IV face and gesture pose and action video analysis and event recognition vision and language biometrics Part V recognition feature detection indexing matching and shape representation datasets and performance analysis Part VI biomedical image analysis deep learning for computer vision Part VII generative models for computer vision segmentation and grouping motion and tracking document image analysis big data large scale methods

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 **Proceedings of the IEEE International Symposium on Industrial Electronics** ,2005 **Journal of the American Medical Association** American Medical Association,1925 **Chemical News and Journal of Industrial Science** ,1912 **Chemical News and Journal of Physical Science** ,1912 **Chemical News and Journal of Physical Science** William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1912 **The Chemical News** ,1912 **Journal of the Missouri State Medical Association** ,1918 *Improving the Quality of Motorcycle Travel Data Collection* Dan R. Middleton,2013 TRB s National Cooperative Highway Research Program NCHRP Report 760 *Improving the Quality of Motorcycle Travel Data Collection* presents an analysis of traffic counting technologies and data collection protocols designed to help improve the reliability of motorcycle travel data The technologies examined include infrared classifiers inductive loops piezoelectric sensors magnetometers multi sensor technologies and tracking video The report describes the performance of each technology in terms of accuracy initial cost portability and ease of setup and operation The report also evaluates and validates a hypothesis that motorcycle crash locations are reasonable predictors of traffic volume A correlation between crash sites and volume may enable a state department of transportation to select traffic counting locations that could yield more accurate data on motorcycle traffic volumes Publisher s description **The Chemical News and Journal of Physical Science** ,1912 **The Chemical News and Journal of Industrial Science** ,1912 Learning to Extract Interesting Events from Outdoor Image Sequences Harini Veeraraghavan,2006 **Dissertation Abstracts International** ,2003

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