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Zicheng Liu
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Human Action Recognition with Depth Cameras

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Human Action Recognition With Depth Cameras Springerbriefs In Computer Science

Santosh Kumar Tripathy,Roshan Singh,Rajeev Srivastava,Akash Kumar Bhoi,Santosh Kumar Satapathy

Human Action Recognition With Depth Cameras Springerbriefs In Computer Science:

Human Action Recognition with Depth Cameras Jiang Wang,Zicheng Liu,Ying Wu,2014-01-25 Action recognition technology has many real world applications in human computer interaction surveillance video retrieval retirement home monitoring and robotics The commoditization of depth sensors has also opened up further applications that were not feasible before This text focuses on feature representation and machine learning algorithms for action recognition from depth sensors After presenting a comprehensive overview of the state of the art the authors then provide in depth descriptions of their recently developed feature representations and machine learning techniques including lower level depth and skeleton features higher level representations to model the temporal structure and human object interactions and feature selection techniques for occlusion handling This work enables the reader to quickly familiarize themselves with the latest research and to gain a deeper understanding of recently developed techniques It will be of great use for both researchers and practitioners

Vision-Based Human Activity Recognition Zhongxu Hu,Chen Lv,2022-04-22 This book offers a systematic comprehensive and timely review on V HAR and it covers the related tasks cutting edge technologies and applications of V HAR especially the deep learning based approaches The field of Human Activity Recognition HAR has become one of the trendiest research topics due to the availability of various sensors live streaming of data and the advancement in computer vision machine learning etc HAR can be extensively used in many scenarios for example medical diagnosis video surveillance public governance also in human machine interaction applications In HAR various human activities such as walking running sitting sleeping standing showering cooking driving abnormal activities etc are recognized The data can be collected from wearable sensors or accelerometer or through video frames or images among all the sensors vision based sensors are now the most widely used sensors due to their low cost high quality and unintrusive characteristics Therefore vision based human activity recognition V HAR is the most important and commonly used category among all HAR technologies The addressed topics include hand gestures head pose body activity eye gaze attention modeling etc The latest advancements and the commonly used benchmark are given Furthermore this book also discusses the future directions and recommendations for the new researchers **Consumer Depth Cameras for Computer Vision** Andrea Fossati,Juergen Gall,Helmut Grabner,Xiaofeng Ren,Kurt Konolige,2012-10-03 The potential of consumer depth cameras extends well beyond entertainment and gaming to real world commercial applications This authoritative text reviews the scope and impact of this rapidly growing field describing the most promising Kinect based research activities discussing significant current challenges and showcasing exciting applications Features presents contributions from an international selection of preeminent authorities in their fields from both academic and corporate research addresses the classic problem of multi view geometry of how to correlate images from different viewpoints to simultaneously estimate camera poses and world points examines human pose estimation using video rate depth images for gaming motion capture 3D human body scans and hand pose

recognition for sign language parsing provides a review of approaches to various recognition problems including category and instance learning of objects and human activity recognition with a Foreword by Dr Jamie Shotton *Feature Extraction and Recognition for Human Action Recognition* Jiajia Luo (Computer engineer),2014 How to automatically label videos containing human motions is the task of human action recognition Traditional human action recognition algorithms use the RGB videos as input and it is a challenging task because of the large intra class variations of actions cluttered background possible camera movement and illumination variations Recently the introduction of cost effective depth cameras provides a new possibility to address difficult issues However it also brings new challenges such as noisy depth maps and time alignment In this dissertation effective and computationally efficient feature extraction and recognition algorithms are proposed for human action recognition At the feature extraction step two novel spatial temporal feature descriptors are proposed which can be combined with local feature detectors The first proposed descriptor is the Shape and Motion Local Ternary Pattern SMltp descriptor which can dramatically reduced the number of features generated by dense sampling without sacrificing the accuracy In addition the Center Symmetric Motion Local Ternary Pattern CS Mltp descriptor is proposed which describes the spatial and temporal gradients like features Both descriptors SMltp and CS Mltp take advantage of the Local Binary Pattern LBP texture operator in terms of tolerance to illumination change robustness in homogeneous region and computational efficiency For better feature representation this dissertation presents a new Dictionary Learning DL method to learn an overcomplete set of representative vectors atoms so that any input feature can be approximated by a linear combination of these atoms with minimum reconstruction error Instead of simultaneously learning one overcomplete dictionary for all classes we learn class specific sub dictionaries to increase the discrimination In addition the group sparsity and the geometry constraint are added to the learning process to further increase the discriminative power so that features are well reconstructed by atoms from the same class and features from the same class with high similarity will be forced to have similar coefficients To evaluate the proposed algorithms three applications including single view action recognition distributed multi view action recognition and RGB D action recognition have been explored Experimental results on benchmark datasets and comparative analyses with the state of the art methods show the effectiveness and merits of the proposed algorithms *Time-of-Flight and Structured Light Depth Cameras* Pietro Zanuttigh,Giulio Marin,Carlo Dal Mutto,Fabio Dominio,Ludovico Minto,Guido Maria Cortelazzo,2016-05-24 This book provides a comprehensive overview of the key technologies and applications related to new cameras that have brought 3D data acquisition to the mass market It covers both the theoretical principles behind the acquisition devices and the practical implementation aspects of the computer vision algorithms needed for the various applications Real data examples are used in order to show the performances of the various algorithms The performance and limitations of the depth camera technology are explored along with an extensive review of the most effective methods for addressing challenges in common applications

Applications covered in specific detail include scene segmentation 3D scene reconstruction human pose estimation and tracking and gesture recognition This book offers students practitioners and researchers the tools necessary to explore the potential uses of depth data in light of the expanding number of devices available for sale It explores the impact of these devices on the rapidly growing field of depth based computer vision Human Activity Recognition and Prediction Yun Fu,2015-12-23 This book provides a unique view of human activity recognition especially fine grained human activity structure learning human interaction recognition RGB D data based action recognition temporal decomposition and causality learning in unconstrained human activity videos The techniques discussed give readers tools that provide a significant improvement over existing methodologies of video content understanding by taking advantage of activity recognition It links multiple popular research fields in computer vision machine learning human centered computing human computer interaction image classification and pattern recognition In addition the book includes several key chapters covering multiple emerging topics in the field Contributed by top experts and practitioners the chapters present key topics from different angles and blend both methodology and application composing a solid overview of the human activity recognition techniques

A Unified Framework for Human Activity Detection and Recognition for Video Surveillance Using Dezert Smarandache Theory Srilatha V.,Veeramuthu Venkatesh, Trustworthy contextual data of human action recognition of remotely monitored person who requires medical care should be generated to avoid hazardous situation and also to provide ubiquitous services in home based care It is difficult for numerous reasons At first level the data obtained from heterogeneous source have different level of uncertainty Second level generated information can be corrupted due to simultaneous operations In this paper human action recognition can be done based on two different modality consisting of fully featured camera and wearable sensor Fusion of Depth and Inertial Sensing for Human Action Recognition Chen Chen,2016 Human action recognition is an active research area benefitting many applications Example applications include human computer interaction assistive living rehabilitation and gaming Action recognition can be broadly categorized into vision based and inertial sensor based Under realistic operating conditions it is well known that there are recognition rate limitations when using a single modality sensor due to the fact that no single sensor modality can cope with various situations that occur in practice The hypothesis addressed in this dissertation is that by using and fusing the information from two differing modality sensors that provide 3D data a Microsoft Kinect depth camera and a wearable inertial sensor a more robust human action recognition is achievable More specifically effective and computationally efficient features have been devised and extracted from depth images Both feature level fusion and decision level fusion approaches have been investigated for a dual modality sensing incorporating a depth camera and an inertial sensor Experimental results obtained indicate that the developed fusion approaches generate higher recognition rates compared to the situations when an individual sensor is used Moreover an actual working action recognition system using depth and inertial sensing has been

devised which runs in real time on laptop platforms In addition the developed fusion framework has been applied to a medical application *Human Detection and Action Recognition Using Depth Information by Kinect* Lu Xia,2012 Traditional computer vision algorithms depend on information taken by visible light cameras But there are inherent limitations of this data source e g they are sensitive to illumination changes occlusions and background clutter Range sensors give us 3D structural information of the scene and it s robust to the change of color and illumination In this thesis we present a series of approaches which are developed using the depth information by Kinect to address the issues regarding human detection and action recognition Taking the depth information the basic problem we consider is to detect humans in the scene We propose a model based approach which is comprised of a 2D head contour detector and a 3D head surface detector We propose a segmentation scheme to segment the human from the surroundings based on the detection point and extract the whole body of the subject We also explore the tracking algorithm based on our detection result The methods are tested on a dataset we collected and present superior results over the existing algorithms With the detection result we further studied on recognizing their actions We present a novel approach for human action recognition with histograms of 3D joint locations HOJ3D as a compact representation of postures We extract the 3D skeletal joint locations from Kinect depth maps using Shotton et al s method The HOJ3D computed from the action depth sequences are reprojected using LDA and then clustered into k posture visual words which represent the prototypical poses of actions The temporal evolutions of those visual words are modeled by discrete hidden Markov models HMMs In addition due to the design of our spherical coordinate system and the robust 3D skeleton estimation from Kinect our method demonstrates significant view invariance on our 3D action dataset Our dataset is composed of 200 3D sequences of 10 indoor activities performed by 10 individuals in varied views Our method is real time and achieves superior results on the challenging 3D action dataset We also tested our algorithm on the MSR Action3D dataset and our algorithm outperforms existing algorithm on most of the cases **Recognition of Humans and Their Activities Using Video** Rama Chellappa,Amit K. Roy-Chowdhury,S. Kevin Zhou,2006-01-01 The recognition of humans and their activities from video sequences is currently a very active area of research because of its applications in video surveillance design of realistic entertainment systems multimedia communications and medical diagnosis In this lecture we discuss the use of face and gait signatures for human identification and recognition of human activities from video sequences We survey existing work and describe some of the more well known methods in these areas We also describe our own research and outline future possibilities In the area of face recognition we start with the traditional methods for image based analysis and then describe some of the more recent developments related to the use of video sequences 3D models and techniques for representing variations of illumination We note that the main challenge facing researchers in this area is the development of recognition strategies that are robust to changes due to pose illumination disguise and aging Gait recognition is a more recent area of research in video understanding although it has been studied for a long time in psychophysics and

kinesiology The goal for video scientists working in this area is to automatically extract the parameters for representation of human gait We describe some of the techniques that have been developed for this purpose most of which are appearance based We also highlight the challenges involved in dealing with changes in viewpoint and propose methods based on image synthesis visual hull and 3D models In the domain of human activity recognition we present an extensive survey of various methods that have been developed in different disciplines like artificial intelligence image processing pattern recognition and computer vision We then outline our method for modeling complex activities using 2D and 3D deformable shape theory The wide application of automatic human identification and activity recognition methods will require the fusion of different modalities like face and gait dealing with the problems of pose and illumination variations and accurate computation of 3D models The last chapter of this lecture deals with these areas of future research Action Recognition in Continuous Data Streams Using Fusion of Depth and Inertial Sensing Neha Dawar,2018 Human action or gesture recognition has been extensively studied in the literature spanning a wide variety of human computer interaction applications including gaming surveillance healthcare monitoring and assistive living Sensors used for action or gesture recognition are primarily either vision based sensors or inertial sensors Compared to the great majority of previous works where a single modality sensor is used for action or gesture recognition the simultaneous utilization of a depth camera and a wearable inertial sensor is considered in this dissertation Furthermore compared to the great majority of previous works in which actions are assumed to be segmented actions this dissertation addresses a more realistic and practical scenario in which actions of interest occur continuously and randomly amongst arbitrary actions of non interest In this dissertation computationally efficient solutions are presented to recognize actions of interest from continuous data streams captured simultaneously by a depth camera and a wearable inertial sensor These solutions comprise three main steps of segmentation detection and classification In the segmentation step all motion segments are extracted from continuous action streams In the detection step the segmented actions are separated into actions of interest and actions of non interest In the classification step the detected actions of interest are classified The features considered include skeleton joint positions depth motion maps and statistical attributes of acceleration and angular velocity inertial signals The classifiers considered include maximum entropy Markov model support vector data description collaborative representation classifier convolutional neural network and long short term memory network These solutions are applied to the two applications of smart TV hand gestures and transition movements for home healthcare monitoring The results obtained indicate the effectiveness of the developed solutions in detecting and recognizing actions of interest in continuous data streams It is shown that higher recognition rates are achieved when fusing the decisions from the two sensing modalities as compared to when each sensing modality is used individually The results also indicate that the deep learning based solution provides the best outcome among the solutions developed **Pose Based Human Activity Recognition** Wenbo Li (Ph. D. in computer science),2019 **Real-time Multi-view Human Action**

Recognition Using Wireless Sensor Network Sricharan Ramagiri,2011 Human Action Recognition with RGB-D Sensors Enea Cippitelli,2017 Human action recognition also known as HAR is at the foundation of many different applications related to behavioral analysis surveillance and safety thus it has been a very active research area in the last years The release of inexpensive RGB D sensors fostered researchers working in this field because depth data simplify the processing of visual data that could be otherwise difficult using classic RGB devices Furthermore the availability of depth data allows to implement solutions that are unobtrusive and privacy preserving with respect to classic video based analysis In this scenario the aim of this chapter is to review the most salient techniques for HAR based on depth signal processing providing some details on a specific method based on temporal pyramid of key poses evaluated on the well known MSR Action3D dataset Demystifying Human Action Recognition in Deep Learning with Space-Time Feature Descriptors Mike Nkongolo,2018-02-21 Research Paper postgraduate from the year 2018 in the subject Computer Science Internet New Technologies course Machine Learning language English abstract Human Action Recognition is the task of recognizing a set of actions being performed in a video sequence Reliably and efficiently detecting and identifying actions in video could have vast impacts in the surveillance security healthcare and entertainment spaces The problem addressed in this paper is to explore different engineered spatial and temporal image and video features and combinations thereof for the purposes of Human Action Recognition as well as explore different Deep Learning architectures for non engineered features and classification that may be used in tandem with the handcrafted features Further comparisons between the different combinations of features will be made and the best most discriminative feature set will be identified In the paper the development and implementation of a robust framework for Human Action Recognition was proposed The motivation behind the proposed research is firstly the high effectiveness of gradient based features as descriptors such as HOG HOF and N Jets for video based human action recognition They are capable of capturing both the salient spatial and temporal information in the video sequences while removing much of the redundant information that is not pertinent to the action Combining these features in a hierarchical fashion further increases performance Human Activity and Behavior Analysis ,2024 Human Activity and Behavior Analysis relates to the field of vision and sensor based human action or activity and behavior analysis and recognition The book includes a series of methodologies surveys relevant datasets challenging applications ideas and future prospects *Advances in Human Activity Detection and Recognition (HADR) Systems* Santosh Kumar Tripathy,Roshan Singh,Rajeev Srivastava,Akash Kumar Bhoi,Santosh Kumar Satapathy,2024-03-08 This book provides a comprehensive overview of Human Activity Detection or Recognition HADR systems Detection or recognition of human activities is a prominent research area in the fields of computer vision and artificial intelligence because of its many applications in daily life including monitoring in public transport areas health monitoring anomaly detection in traffic and smart homes This book divides different activities according to their criticality then discusses the various motivations and

challenges that are involved in HADR systems The authors then propose a framework for activity detection or recognition The book also covers ten key applications of HADR systems and the recent developments for each of them The authors also propose areas for future research **Human Activity and Behavior Recognition in Videos. A Brief Review** Amrit Sarkar,2014-07-10 Seminar paper from the year 2014 in the subject Engineering Artificial Intelligence grade 8 8345 course B Tech Information Technology language English abstract Understanding human activity and behavior especially real time understanding of human activity and behavior in video streams is presently one of the most active areas of research in Computer Vision and Artificial Intelligence Its purpose is to automatically detect track and describe human activities in a sequence of image frames Challenges in this topic of research are numerous and sometimes very difficult to work out This paper presents a brief review over the overall process of Human Activity and Behavior Recognition both real time and non real time and some of the applications present in current world The main purpose of this survey is to extensively identify some of the existing methods critically analyze it and acknowledge the work done by researchers in this field so far

Human Recognition at a Distance in Video Bir Bhanu,Ju Han,2010-11-05 Most biometric systems employed for human recognition require physical contact with or close proximity to a cooperative subject Far more challenging is the ability to reliably recognize individuals at a distance when viewed from an arbitrary angle under real world environmental conditions Gait and face data are the two biometrics that can be most easily captured from a distance using a video camera This comprehensive and logically organized text reference addresses the fundamental problems associated with gait and face based human recognition from color and infrared video data that are acquired from a distance It examines both model free and model based approaches to gait based human recognition including newly developed techniques where the both the model and the data obtained from multiple cameras are in 3D In addition the work considers new video based techniques for face profile recognition and for the super resolution of facial imagery obtained at different angles Finally the book investigates integrated systems that detect and fuse both gait and face biometrics from video data Topics and features discusses a framework for human gait analysis based on Gait Energy Image a spatio temporal gait representation evaluates the discriminating power of model based gait features using Bayesian statistical analysis examines methods for human recognition using 3D gait biometrics and for moving human detection using both color and thermal image sequences describes approaches for the integration face profile and gait biometrics and for super resolution of frontal and side view face images introduces an objective non reference quality evaluation algorithm for super resolved images presents performance comparisons between different biometrics and different fusion methods for integrating gait and super resolved face from video This unique and authoritative text is an invaluable resource for researchers and graduate students ofcomputer vision pattern recognition and biometrics The book will also be of great interest to professional engineers of biometric systems Action Recognition in Depth Videos Using Nonparametric Probabilistic Graphical Models Natraj

Raman,2016

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