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## **Human Action Recognition With Depth**

Abstract: This paper presents an effective approach for recognising human actions from depth video sequences by employing depth motion maps (DMMs) and convolutional neural networks (CNNs). Depth maps are projected onto three orthogonal planes, and frame differences under each view (front/side/top) are then accumulated through an entire depth video sequence generating a DMM.

## **Article: Real-time human action recognition using depth ...**

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.

## **Human detection and action recognition using depth ...**

While the availability of depth maps has resulted in a recent boost in performance on benchmark datasets (Li, Zhang, Liu, 2010, Wang, Liu, Wu, Yuan, 2012), most approaches to human action recognition are however inherently view-dependent (Luo, Wang, Qi, 2013, Oreifej, Liu, Redmond, 2013, Wang, Wu, 2013). That is, they depend on the camera angle from which the action was recorded.

## **Cross-view human action recognition from depth maps using ...**

In this paper, a method based on depth spatial-temporal maps (DSTMs) is presented for human action recognition from depth video sequences, which provides compact global spatial and temporal...

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## **Human action recognition based on 3D body mask and depth ...**

Improving Human Action Recognition Using Fusion of Depth Camera and Inertial Sensors Abstract: This paper presents a fusion approach for improving human action recognition based on two differing modality sensors consisting of a depth camera and an inertial body sensor.

## **Improving Human Action Recognition Using Fusion of Depth ...**

An efficient real-time human action recognition system is developed in using decision level fusion of depth and inertial sensor data. Depth and inertial data is effectively merged in to train a hidden Markov model for improving accuracy and robustness of hand gesture recognition.

## **Human Action Recognition Using Deep Multilevel Multimodal ...**

skeleton based features cannot deliver high recognition accuracy in action recognition, because depth visual appearances of human body-parts provide discriminative information, and most of the usual human actions are defined based on the interaction of the body with other objects. For example, drinking and eating snacks actions have a very sim-

## **Learning Action Recognition Model From Depth and Skeleton ...**

Deep Convolutional Neural Networks for Human Action Recognition Using Depth Maps and Postures Abstract: In this paper, we present a method (Action-Fusion) for human action recognition from depth maps and posture data using convolutional neural networks (CNNs). Two input descriptors are used for action representation.

## **Deep Convolutional Neural Networks for Human Action ...**

Datasets and codes for Human Action Recognition Using Deep Multilevel Multimodal (M2) Fusion of Depth and Inertial Sensors (recently published in the IEEE Sensors Journal) - zaamad/Deep-Multilevel-Multimodal-Fusion

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## **GitHub - zaamad/Deep-Multilevel-Multimodal-Fusion ...**

Recent approaches in depth-based human activity analysis achieved outstanding performance and proved the effectiveness of 3D representation for classification of action classes. Ranked #4 on Skeleton Based Action Recognition on Varying-view RGB-D Action-Skeleton ACTION CLASSIFICATION SKELETON BASED ACTION RECOGNITION 15

## **3D Action Recognition | Papers With Code**

The recently developed depth imaging technologies have provided new directions for human activity recognition (HAR) without attaching optical markers or any other motion sensors to human body parts.

## **Robust human activity recognition from depth video using ...**

Human action recognition has been widely used in various fields of computer vision, pattern recognition, and human-computer interaction and has attracted substantial attention. Combining deep...

## **Robust human action recognition based on depth motion maps ...**

This dataset was collected as part of our research on human action recognition using fusion of depth and inertial sensor data. The objective of this research has been to develop algorithms for more robust human action recognition using fusion of data from differing modality sensors.

## **Introduction - University of Texas at Dallas**

On one hand, action recognition becomes far easier with depth sensors. On the other hand, the drive to recognize more complex actions presents new challenges. One crucial aspect of action recognition is to extract discriminative features. The depth maps have completely different

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characteristics from the RGB images.

## **Human Action Recognition with Depth Cameras ...**

This dataset was collected as part of research work on action recognition from depth sequences. The research is described in detail in CVPRW 2012 paper View Invariant Human Action Recognition Using Histograms of 3D Joints

## **UTKinect-Action3D Dataset**

Multi-person Real-time Action Recognition Based-on Human Skeleton. Highlights: 9 actions; multiple people ( $\leq 5$ ); Real-time and multi-frame based recognition algorithm.. Updates: On 2019-10-26, I refactored the code; added more comments; and put all settings into the config/config.yaml file, including: classes of actions, input and output of each file, OpenPose settings, etc.

## **GitHub - felixchenfy/Realtime-Action-Recognition: Apply ML ...**

The recent revolution of sensor-based depth information opens attracting scope to work for human activity recognition. The activities due to human being can have a great interest in every domain of real life where human is always a major factor.

## **Better Performance in Human Action Recognition from ...**

Human activity recognition, or HAR, is a challenging time series classification task. It involves predicting the movement of a person based on sensor data and traditionally involves deep domain expertise and methods from signal processing to correctly engineer features from the raw data in order to fit a machine learning model.

## **Deep Learning Models for Human Activity Recognition**

The human skeleton information can also be obtained from depth images. Although vision-based

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human action recognition continues to advance, the recognition performance is subject to various challenges such as occlusion, camera position, subject variations in performing actions, background clutter, etc.

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