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Human Action Recognition

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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 ...

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.

Human Action Recognition with Depth Cameras | Jiang Wang ...

Human Action Recognition with Depth Cameras PDF by Jiang Wang, Zicheng Liu, Ying Wu Part of the SpringerBriefs in Computer Science series. Download - Immediately Available. Share. Description. Action recognition is an enabling technology for many real world applications, such as human-computer interaction, surveillance, video retrieval ...

Human Action Recognition with Depth Cameras: Jiang Wang ...

Abstract. Human action recognition using depth sensors is an emerging technology especially in game console industry. Depth

information can provide robust features about 3D environments and increase accuracy of action recognition in short ranges. This paper presents an approach to recognize basic human actions using depth information obtained from the Kinect sensor.

RECOGNITION OF BASIC HUMAN ACTIONS USING DEPTH INFORMATION ...

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 ...

Depth Maps-based Human Activity Recognition is the process of categorizing depth sequences with a particular activity. In this problem, some applications represent robust solutions in domains such as surveillance system, computer vision applications, and video retrieval systems.

Depth based human activity recognition: A comparative ...

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. The first input is a depth motion image that accumulates consecutive depth maps of a human action, whilst the second input is a proposed moving joints descriptor which represents the motion of body joints over time.

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) The ImageFolders_KinectV2Dataset folder has all the images related to Kinect V2 dataset.

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

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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. The first input is a depth motion image that accumulates consecutive depth maps of a human action, whilst the second input is a proposed moving joints descriptor which represents ...

Deep convolutional neural networks for human action ...

skeleton based features cannot deliver high recognition ac-curacy in action recognition, because depth visual appear-ances of human body-parts provide discriminative informa-tion, and most of the usual human actions are defined based on the interaction of the body with other objects. For ex-ample, drinking and eating snacks actions have a very sim-

Learning Action Recognition Model From Depth and Skeleton ...

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 ...
The advent of depth sensors opens up new opportunities for human action recognition by providing depth information. The main purpose of this paper is to pr Human Action Recognition Using Multilevel Depth Motion Maps - IEEE Journals & Magazine

Human Action Recognition Using Multilevel Depth Motion ...
We present a method for view-invariant action recognition from depth cameras based on graph signal processing techniques. Our framework leverages a novel graph representation of an action as a temporal sequence of graphs, onto which we apply a spectral graph wavelet transform for creating our feature descriptor.

Cross view human action recognition from depth maps using ...
One crucial aspect of action recognition is to extract discriminative features. The depth maps have completely different characteristics from the RGB images. Directly applying features designed for RGB images does not work. Complex actions usually involve complicated temporal structures, human-object interactions, and person-person contacts.

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Computer Vision and Pattern Recognition (cs.CV); Machine Learning (cs.LG); Multimedia (cs.MM); Image and Video Processing (eess.IV) Cite as: arXiv:2010.16073 [cs.CV] (or arXiv:2010.16073v1 [cs.CV] for this version)

CNN based Multistage Gated Average Fusion (MGAF) for Human ...
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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