عنوان فارسی مقاله:
چارچوب واحد پیشنهادی برای شناخت فعالیت (حرکت) انسان با بهره‌گیری از ویژگی‌های دینامیک عمل

عنوان انگلیسی مقاله:
A proposed unified framework for the recognition of human activity by exploiting the characteristics of action dynamics

توجه!
این فایل تنها قسمتی از ترجمه می‌باشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک می‌کنید.
5. Conclusion

In this paper, human activity recognition based upon the fusion of SDEG of human poses and orientation of key poses of human silhouettes is presented, which is executed separately but sequentially. SDEG is computed using a single frame representing the 2D posture of the activity while $\Psi$-transform is used for the computation of orientation features providing the temporal information of human silhouettes. A single frame of the activity is extracted from a video sequence using histogram distances between the key frames. The SDEG is computed at different levels and orientations of bins. As the number of levels increases, a better quality of spatial distribution is achieved, but the complexity of the system increases because of the increase in the number of vectors. It is also inferred that with an increase in the levels, the magnitude of the spatial gradient vectors across the degrees decreases, which further diminishes the significance of discriminating characteristics of features vectors due to lower values. $\Psi$-transform gives the orientation feature of human activity, which is computed on the silhouettes of the activities and silhouettes are extracted using texture-based segmentation method. The orientation provides the knowledge about the flow of action relating to time and the global change in the object. It is also inferred that increasing the number of frames not only increases the robustness, but also increases the computation time significantly. The advantage of this fusion approach is to offer a numerous distinctive feature vector, which leads us to robust and noise free action modelling.

توجه!

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براي جستجوی جديدترین مقالات ترجمه شده، اينجا كليک كنید.