Human Activity Action Recognition Approach

Leonardo Queiroz, Xingdong Cao

I. Introduction and objectives

One of the many applications for a smart system is the ability to provide an automated assessment of health. In the current aging population, "the challenges of maintaining mobility and cognitive function make it increasingly difficult to remain living alone therefore forcing many people to seek residence in clinical institutions" [1].

II. Framework

This section describes the proposed approach of using only skeleton points in recognizing a human activity. Fig. 1 illustrates the overall design of the recognition system. The system consists of 4 main components: database, skeleton parser, classifier, and output.

A. *Databases*

B. *Skeleton Parser*

C. *Classifier*

D. *Permormance Metric*

III. Experimental results

IV. Future Work

V. Conclusions

References

[1] Amaya Arcelus, Megan Howell Jones, Rafik Goubran, and Frank Knoefel. Integration of smart home technologies in a health monitoring system for the elderly. In *21st International Conference on Advanced Information Networking and Applications Workshops (AINAW'07)*, volume 2, pages 820–825. IEEE, 2007.

Appendix

```
# -*- coding: utf-8 -*-
"""
```

```
Created on Thu Apr  2 21:02:25 2020

@author: xdcao@zju.edu.cn
"""

print("Pythoncode")
```