Subject:

IVCNZ 2016 notification for paper 9

From:

IVCNZ 2016 <ivcnz2016@easychair.org>

Date:

14/10/2016 2:37 PM

To:

Massimo Piccardi <Massimo.Piccardi@uts.edu.au>

Dear Massimo Piccardi,

We are pleased to inform you that your paper titled

Local Depth Patterns for Fine-Grained Activity Recognition in Depth Videos

has been accepted for presentation at this year's IVCNZ conference.

We thank you for your contribution and for considering IVCNZ 2016 as your platform for disseminating your research.

Please find below the reviewers' comments and score. Please use these comments to revise your paper for final submission.

Your final paper must be submitted by 1st November, 2016. The final paper, including copyright notice on the first page, is to be submitted via IEEE PDFXpress. An electronic copyright form must be submitted. At least one author must register by 1st November 2016 and attend the conference to present the paper for it to be submitted to IEEE for inclusion in the Xplore digital library. Full details will be available on the website (http://ivcnz.massey.ac.nz/finalpaper.asp) shortly.

Thank you and kind regards,

Stephen Marsland

G. Sen Gupta

Donald Bailey

----------------------- REVIEW 1 ---------------------

PAPER: 9

TITLE: Local Depth Patterns for Fine-Grained Activity Recognition in Depth Videos

AUTHORS: Sari Awwad and Massimo Piccardi

OVERALL EVALUATION: 2 (accept)

----------- OVERALL EVALUATION -----------

The authors outline a solution for recognising fine-grained activities (e.g. different actions while preparing food on a kitchen table) based on depth video data only. Their comparative experimental performance evaluation demonstrates that the proposed method does have benefits compared to others.

The authors follow in their research the idea of using local depth patterns for analysing video data. For example, see http://dl.acm.org/citation.cfm?id=2806295 for a previous paper (which should be cited in the current manuscript), may be also a link to https://www.semanticscholar.org/paper/Local-Depth-Patterns-for-Tracking-in-Depth-Videos-Awwad-Hussein/b04b51e4779e75585e75f782b5f25b73e2327c53

The "recently" needs to be deleted in "that was recently released as part of a 2013 publication".

----------------------- REVIEW 2 ---------------------

PAPER: 9

TITLE: Local Depth Patterns for Fine-Grained Activity Recognition in Depth Videos

AUTHORS: Sari Awwad and Massimo Piccardi

OVERALL EVALUATION: 1 (weak accept)

----------- OVERALL EVALUATION -----------

This research proposes a new method for human activity recognition in environments where fine-grained activities occur because of small objects or small movements. Instead of using multiple sensor data, the method is based solely on data acquired by a single depth-camera and the results of a human activity recognition task using the “50 salad” video data set, suggests this approach outperforms similar work.

This is interesting work as the authors propose an aggregated depth descriptor to represent the fine-grained movements to be classified and have applied it to an improved Support Vector Machine (SVM) multi-class classifier. Given the reported results, however, it appears that some type of ensemble-based learning might be applicable here with the number of classes and the fact delineating between them appeared challenging or even use a different type of classifier from that of the SVM.

Also, why were the first 300 principal components extracted from the 13,824-sized Fisher vector? Was this value derived through experimentation?