Peer-Review of "KL-CPD for Video Data"

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1 Introduction

This is a peer-review of final report for project of "KL-CPD for Video Data" prepared by Evgenia Romanenkova, Dmitriy Ermilov and Alexander Lukashevich. The reviewed paper and source code were obtained from Github repository of that project.

2 Report review

In their work authors explore different methods of preprocessing videos in order to decrease the dimensionality of data and through this increase performance of Change Point Detection. The main focus of the research is not on the KL-CPD approach, so maybe a slightly altered title for the project should be considered.

The choice of experiments requires some more justification.

Styling and structure of the report are pretty good. No grammar or style mistakes were found by me.

All tables and figures are readable and well documented, have comments and captions that are enough for understanding.

3 Detected typos

- I am not quite understand why report is stated to be a part of the "Proceedings of the 38 th International Conference on Machine Learning" (at the first page).
- In paragraph "Feature Extraction" of Section 5.2, where architecture of custom CNN is described, numbered list should be used instead of bullet-points.

4 Experiments

Project repository contains code necessary for reproducing results of experiments stated in the report. Instructions in the Readme file are clear. Results presented in paper are reproducible.

I only would recommend to separate data for inference (test set) from the rest of data. For now entire dataset is contained within one quite large archive ($\approx$ 6.5 GB) that takes quite much time to be downloaded.