

## Jury Member Report - Doctor of Philosophy thesis.

**Name of Candidate:** Evgeniya Ustinova

**PhD Program:** Computational and Data Science and Engineering

**Title of Thesis:** Image-based human re-identification and recognition using deep learning methods

**Jury Member:** Prof Ivan Oseledets

**Name of the Reviewer:**

<p>I confirm the absence of any conflict of interest</p> <p>(Alternatively, Reviewer can formulate a possible conflict)</p>	<p><b>Signature:</b></p>  <p><b>Date: 25-11-2019</b></p>
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*The purpose of this report is to obtain an independent review from the members of PhD defense Jury before the thesis defense. The members of PhD defense Jury are asked to submit signed copy of the report at least 30 days prior the thesis defense. The Reviewers are asked to bring a copy of the completed report to the thesis defense and to discuss the contents of each report with each other before the thesis defense.*

*If the reviewers have any queries about the thesis which they wish to raise in advance, please contact the Chair of the Jury.*

### Reviewer's Report

Reviewers report should contain the following items:

- Brief evaluation of the thesis quality and overall structure of the dissertation.
- The relevance of the topic of dissertation work to its actual content
- The relevance of the methods used in the dissertation
- The scientific significance of the results obtained and their compliance with the international level and current state of the art
- The relevance of the obtained results to applications (if applicable)
- The quality of publications

The summary of issues to be addressed before/during the thesis defense

The presented thesis has 119 pages, introduction, related work and 4 chapters. The topic of the thesis is person re-identification based on image processing and deep learning. The topic is very hot and competitive, and the presented results were accepted at some of the top conferences.

The thesis gently introduces the problem (main problems are formulated in very clear way).

Comments:

1. Half of the thesis is related to the existing work and background, and the novel work starts from Chapter 3. It is not very clear, what is the challenge being solved by the author until that time. It would be nice to have main contributions of the thesis stated somewhere in the beginning.
2. Personal contributions to the papers should be stated clearly.
3. The whole review part is nice, but it is not clear, if these results are needed for the results obtained in the thesis.
4. Each of the chapter covers an important problem, but can they be united by some common idea/method/task? This could be stated more explicitly.

This comments do not change the overall evaluation of the high-quality and high-standard work by Evgeniya. I recommend the thesis for defense.

**Provisional Recommendation**

*I recommend that the candidate should defend the thesis by means of a formal thesis defense*

*I recommend that the candidate should defend the thesis by means of a formal thesis defense only after appropriate changes would be introduced in candidate's thesis according to the recommendations of the present report*

*The thesis is not acceptable and I recommend that the candidate be exempt from the formal thesis defense*