Paper Summary (Individual)

Daniel Archambault

Electronic Submission Deadline:
Weds. Nov. 23th at 11am

Learning Outcome(s): To understand and summarise research.

1 Overview

In class, we looked at an award winning paper from the IEEE VIS conference. During this session, we discussed summarising the paper according to three objectives.

1. What is the objective of the paper?

2. How does it claim that it is different from other papers in the literature?

3. How does it support that claim with evidence?

In this assignment, you are asked to select a relevant paper from the literature, study it, and describe it along these three axes. Your paper should be a full paper (8 pages). Your paper should be original research and not anything else.

To select you paper, please visit the following journals:

- *IEEE Transactions on Visualization and Computer Graphics*

    - https://ieeexplore.ieee.org/Xplore/home.jsp

- *Computer Graphics Forum*

    - https://onlinelibrary.wiley.com/journal/14678659

From campus, you will have access to the papers through these websites. Off campus, because you probably don't have a subscription, you will likely not.

You can also check for papers at the following conferences:

- IEEE VIS - includes InfoVis, SciVis, and VAST.

- EuroVis

If you find a paper interesting at one of these conferences, please visit IEEExplore (IEEE VIS) or Computer Graphics Forum (EuroVis) to get a copy of the paper. Please read the paper and take extensive notes on its structure and findings.

You must select a paper from these journals or conferences. The paper must be relevant to visual analytics (methods for exploring and explaining data visually). The paper shall not be a survey paper. It must contain original research. If the paper is not from these venues and/or not relevant to visual analytics, you will get a 0 on this assignment.

1.1 Objective

In no more than a short paragraph (6-8) sentences, state the objective of the paper. The objective is the reason why the authors wrote the work and what they are trying to demonstrate. Don't put all the details of the paper here, just be clear on what the authors are trying to do.

This part of the assignment is worth **10 marks**.

1.2 Difference to the Literature

In two small paragraphs, state the authors of the paper claim that the work is different from the literature present at the time of the paper. You are responsible for being familiar at a high level with some of the work that the paper cites.

This part of the assignment is worth **20 marks**.

1.3 Support for the Claim

This section describes the support for the claim. The support for the claim can vary based on the type of paper that has been written.

The support for the claim could be one or more of the following:

1. A developed piece of software/algorithm

2. An experiment involving users/metrics

3. Case studies showing the results of the technique

For the first part of this section, describe the software developed and the reasons behind developing it. Be specific on what it is intended to do and how it does it. If the paper you have chosen is an experiment, describe the experimental protocol. Also, describe the hypotheses or research questions selected. If both are present in the paper, make a balance between the two that is similar to the presented work. This part of the assignment is worth **25 marks**.

Then, describe the evidence to support the claims in the paper. If the paper describes software, describe the results of that software and the demonstrated advantages and disadvantages of the work. If the paper contains an experiment, describe the results and analysis of the experiment. What are the take home messages from the paper? This part of the assignment is worth **30 marks**.

Given the entire paper, please describe areas of potential future work. This should be a combination of what the paper has said and what you think are areas of future work. This section of the paper is worth **15 marks**.

1.4 Submission

Your submission should be no more than **one page in length** in 11 point font. It is important to be very concise and distil the main parts of the paper as succinctly as possible. **You will lose marks if you try to cram as much information onto the page as possible.** Please put only the necessary information as concisely as possible. In your future scientific career, you will need to summarise 10-20 papers in a page or two. It is best to learn to write concisely with the correct information.

All written parts of this assignment should presented in a single PDF document as part of your submission. Word documents are not acceptable. **Word documents will receive a mark of 0.**

The PDF should be uploaded and submitted to canvas by the indicated deadline. No hard copy submission is required for this assignment.

By submitting to canvas you acknowledge that you have read and understood the following:

By submitting this coursework, electronically and/or hardcopy, you state that you fully understand and are complying with the university's policy on Academic Integrity and Academic Misconduct. The policy can be found at `https://myuni.swansea.ac.uk/academic-life/academic-misconduct`.

If you do not understand this text, please come see me during office hours.