Survey Forms

Background

Name: _____

Field of research: _____

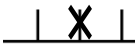
Highest academic degree: _____

Sex (circle): male female age: _____

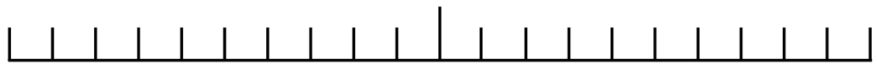
How familiar are you with search systems & recommendation systems for academic literature?

Not at all familiar	Not that familiar	Somewhat familiar	Quite familiar	Very familiar
○	○	○	○	○

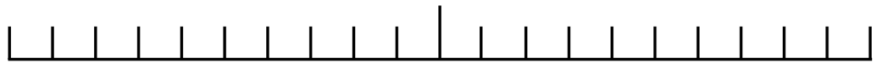
Part B

Instructions: mark your answer with an 'X' on a line like this: 

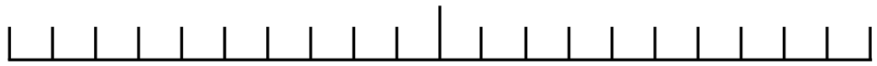
1. How mentally demanding were the tasks? (on average over all tasks)



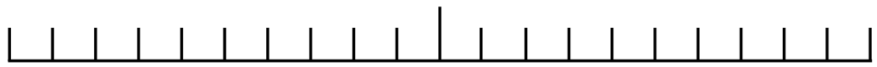
2. How successful were you in accomplishing what you were asked to do? (on average over all tasks)



3. How hard did you have to work to accomplish your level of performance? (on average over all tasks)



4. How insecure, discouraged, irritated, stressed, or annoyed were you with the tasks? (on average over all tasks)



Part A: Tasks

1. Category 1 – recommendation visualization overview

Task 1.1.

Identify the top 2 articles with the highest overall similarity to the given article for which you are receiving recommendations (so the central node).

Title of article(s) (first 3 words are sufficient): _____

Task 1.2.

Explore the recommendations. Then go ahead and save 2 documents that you, personally, find most interesting to your 'collected documents' panel for later reading.

Task 1.3.

Identify the recommended article (or articles) containing the highest degree of only citation-based similarity.

Title of article(s) (first 3 words are sufficient): _____

Task 1.4.

Identify the recommended article (or articles) containing the highest degree of only image-based similarity.

Title of article(s) (first 3 words are sufficient): _____

Task 1.5.

Assume one of the documents saved in your 'collected documents' panel no longer interests you. Remove it from the collection.

Task 1.6.

Collapse the side panels to give you more space to expand the recommendations.

2. Category 2 – detailed feature view

Task 2.1.

Identify the recommended article that has the highest overall similarity with the source document, and determine which feature contributes the most to overall similarity?

Title of article (first 3 words are sufficient): _____

Feature with the highest influence on overall similarity: _____

Task 2.2.

Of the recommended articles, identify the publication containing the highest degree of only citation-based similarity.

Title of article (first 3 words are sufficient): _____

Task 2.3.

Of the recommended articles, identify the publication containing the highest degree of <u>both</u> text-based similarity and citation-based similarity.

Title of article (first 3 words are sufficient): _____

Task 2.4.

Configure the weighting of the similarity features to your own custom preference and save this weighting as a custom setting.

Part C

C.1 *Graph-based Visualization*

B1.1

The graph-based visualization gives me a useful overview of the recommended literature.

strongly disagree				**strongly agree**
○	○	○	○	○

C1.2

The graph-based view lets me quickly narrow down the recommendation results to show the articles that might be most relevant or interesting to me.

strongly disagree				**strongly agree**
○	○	○	○	○

C1.3

The visualization of document similarity using the blue color scale helps me to quickly distinguish between recommended documents with a high- vs. low-ranking similarity score.

strongly disagree				**strongly agree**
○	○	○	○	○

C1.4

The color encoding for the 4 similarity features (text, citation, image, formula) is easy to tell apart.

strongly disagree				strongly agree
○	○	○	○	○

C1.5

The relative size of the expanded 'feature nodes' (which indicate the presence of text, citation, image, or formula-based feature similarity) help me understand the influence of individual semantic features.

strongly disagree				strongly agree
○	○	○	○	○

C1.6

The expanded view for the individual recommendations can help me detect the presence of content that would otherwise be hard to identify between the source document and the recommended documents.

strongly disagree				strongly agree
○	○	○	○	○

C.2 *Weighting*

C2.1

Adjusting the global similarity threshold allows an efficient removal of the documents that do not interest me.

strongly disagree				strongly agree
○	○	○	○	○

C2.2

Adjusting the feature-based similarity thresholds allows me to focus on properties that might interest me in the recommended literature.

strongly disagree				Strongly agree
○	○	○	○	○

C.3 *Document Selection*

C3.1

The 'collected documents' panel provides a useful overview of documents to be saved for further examination and reading.

strongly disagree				strongly agree
○	○	○	○	○