Human-Robot Interaction Module
Instructions for Coursework Report
UWE UFMFHP-15-M

This document contains detailed instructions how to write the coursework report for the Human-Robot Interaction Module.
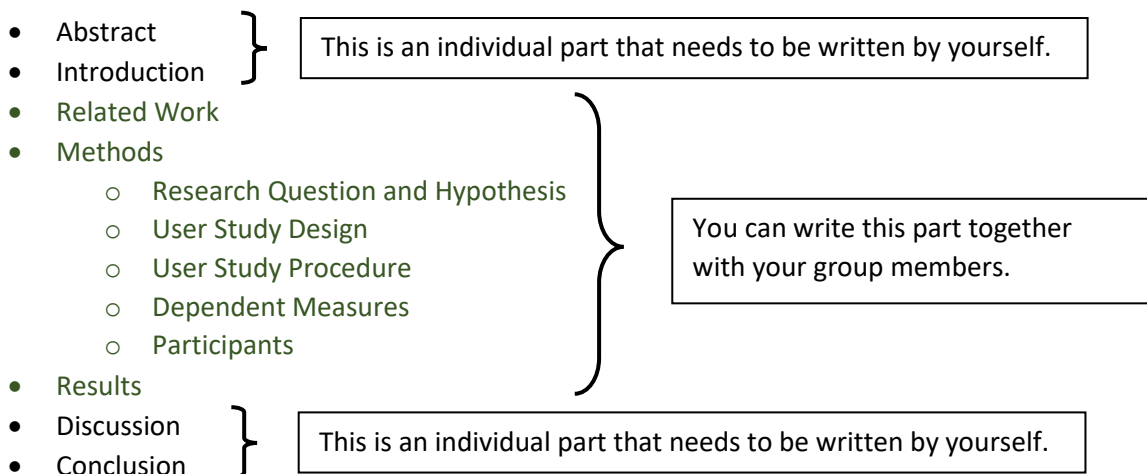
1. General information

The coursework report should have the following form:

- The report is an individual submission, but parts of the report can be written together with your group members.
- The report has to be submitted on Blackboard.
  Latest deadline for submission: Thursday 20 May 2021, 2pm BST
- The report should have up to 3000 words maximum.
- It should be written in the style of a scientific paper. Example paper at
  https://www.frontiersin.org/articles/10.3389/frobt.2017.00021
- For formatting the report, please use the IEEE conference proceedings template. You can find Word and Latex templates at
  https://www.ieee.org/conferences/publishing/templates.html

2. Report Structure

The report should have the following structure. Please look also at the indication which parts need to be written by yourself and which parts can be written together with your group partners.

- Abstract
- Introduction

  > This is an individual part that needs to be written by yourself.

- Related Work
- Methods
  - Research Question and Hypothesis
  - User Study Design
  - User Study Procedure
  - Dependent Measures
  - Participants

  > You can write this part together with your group members.

- Results
- Discussion
- Conclusion

  > This is an individual part that needs to be written by yourself.

Please find more details for each of the sections of your report in the following paragraphs.

2. 1 Abstract (individual work)

The abstract should be 200 to 250 words. It should contain the following parts:

- Background: 1 to 2 sentences about the motivation for the study

- Methods: A short description of the methods used in the user study.
- Results: A summary of the most important results.
- Conclusions: A summary of the discussion of the results

You can find more information about how to write a good abstract at https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3136027/.

2.2 Introduction (individual work)

The main paragraphs in the introduction should describe the following:

- The background and context for the topic of the user study.
- The motivation why it is important to study the chosen topic.
- The main research question(s) for the user study.

Further reading:
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4548565/

2.3 Related Work (group work)

The related work section should contain a short literature review of at least five publications that are related to your user study. For each cited publication you should briefly describe in your own words what has been studied, describe the most important results, and explain how this work is related to your study. Please follow the UWE citation rules for the related work section: https://www.uwe.ac.uk/study/study-support/study-skills/referencing/uwe-bristol-harvard/how-to-cite-a-work

2.4 Methods (group work)

The Methods Section is the main section that describes your user study. It should have subsections for the following parts:

- Hypotheses: The hypotheses you made when you designed the study. Please remember that hypotheses need to be testable.
- User Study Design: A description of the set up for you study. Please also include study conditions in this section.
- User Study Procedure: The procedure you used to lead the participants through the study from greeting at the beginning to debriefing after the study.
- Dependent Measures: Description of the questionnaires and other measures you used in the study.
- Participants: A brief overview of the participants you had (number of participants, gender distribution, average age, pre experience, etc.).

2.5 Results (group work)

A succinct report on the results of the taken measures. Please report the results in a neutral way without interpreting then in this section. Your interpretation of the results should follow in the Discussion Section of the report.

For any **quantitative measures**, please include a statistical analysis.

For **qualitative measures**, include an overview of comments that were made by the participants, e.g. in any post study interviews.

2.6 Discussion (individual work)

In the Discussion Section you should describe how you interpret the results of your user study. The goals for the Discussion Section are as follows:

- Critically analyse and interpret the findings of your study.
- Place your findings in the context of published literature. E.g., you can compare how your results are similar or different to results from related work.
- Describe how your study moves the research field forward.
- Describe any limitations of your study. This is a mandatory part of the Discussion Section.

2.7 Conclusion (individual work)

The conclusion rounds off your report. In the conclusion, answer the following questions:

- What is the main take home message of your study?
- What is the main contribution that your study makes to the HRI research field?
- For whom are the study results important? E.g., which end users could be interested in your results?
- End the conclusion with a discussion of future directions for your research. What follow up studies should be conducted based on your results?

2.8 Appendix (group work)

Please add the study paperwork (participant information sheet, informed consent, etc.) as appendix to the report.

3. Assessment Criteria

Please see the weighting and assessment criteria for all of the sections in the following table.

Section	Criteria	Weight
Abstract	- Abstract describes background, method, results, and conclusion	5%
Introduction	- Aims of study defined - Context of study defined	5%
Related Work	- Relevant work addressed - Relation of own work to previous work discussed	10%
Methods	- Hypotheses defined - Study design and procedure described in a clear, understandable way - Dependent measures described - Participant overview given	20%

Results	• Results are described without given own opinion • Statistical analysis of numerical results • Overview of qualitative results (e.g. from interviews) given	10%
Discussion	• Results are critically analysed and interpreted • Results are placed in context of previous literature • Description of contribution of own work present • Limitations of study are discussed	20%
Conclusion	• Main results summarised • Follow-up work is discussed	10%
Ambition	• Complexity of study protocol • Richness of data analysis	15%
Style	• Correct spelling and grammar • References are cited correctly	5%

4. Submission Instructions

- Please submit the report on the HRI Module Blackboard in the Assignments Section.
- The latest submission deadline for the report is Thursday 20 May 2020, at 2pm BST.
- It is strongly recommended to submit the report well in advance before the deadline to avoid technical problems.
- Work submitted up to 24 hours after the deadline will incur a mark penalty. If you achieve a mark of more than 50% (level M), the penalised mark will be reduced to 50%.
- Work cannot be submitted after this 24-hour window has passed and a non-submission will be recorded.
- For more details, please see:
  https://www.uwe.ac.uk/study/academic-information/assessments/coursework
- Please submit one PDF that includes all sections listed above and the appendix with the study paperwork.