

University of Lincoln Assessment Framework

Frontiers Briefing Template 2021-2022

Module Title & Code: Frontiers of *** Research

***: Games (CGP9021M), Robotics (CMP9766M), Computer Science (CMP9769M), Machine Learning & Computer Vision (CMP9782M)

Contribution to Final Module Mark: 100%

Description of Assessment Task and Purpose:

The summative assessment for this unit consists of two pieces of work:

- a research project proposal presented in the form of a poster (50%), and
- a research literature review presented in the form of a report (50%).

You are also required to present your poster at a special poster session, which will be discussed in further detail during the lectures.

See “format for assessment” (below) for details on how the proposal and literature review must be formatted.

Learning Outcomes Assessed:

- [LO1] Critically appraise the “state of the art” in computer science (***) research, including an understanding of the theoretical developments and current applications in computer science research topics.
- [LO2] Produce a research proposal for a substantial research project in one of the computer science (***) research topics.

Knowledge & Skills Assessed:

- Subject Specific Knowledge, Skills and Understanding: e.g. Literature searching, referencing, project planning, techniques and skills subject-specific knowledge.
- Professional Graduate Skills: e.g. independence and personal responsibility, adaptability, verbal communication, written communication, creativity, critical thinking, IT skills, problem solving, effective time management, working under pressure to meet deadlines.
- Emotional intelligence: e.g. self-awareness, self-management, motivation, resilience, self-confidence.

Assessment Submission Instructions:

The deadline for submission of this work is included in the School Submission dates on Blackboard. Submissions will be made by electronic means — via Blackboard — of two PDF files: one PDF file for your poster, and one PDF file for your literature review. Please note that no other format will be accepted. DO NOT include this briefing document with your submission.

Each student is also required to present their poster to a selected audience including the module delivery team at a special poster session, as per the schedule indicated on Blackboard. You must attend the lectures for further details, guidance and clarifications regarding these instructions.

Date for Return of Feedback:

See the “Hand in Dates” spreadsheet on Blackboard.

Format for Assessment:1. Research Proposal (poster)

The research proposal should be discussed in detail with your project supervisors, and presented in the form of a poster using the template provided. The suggested structure for the proposal is as follows:

Title

The proposal should have a concise, descriptive title reflecting the research problem investigated and highlighting any unique aspects of the work.

Abstract

The proposal should include a concise summary of your intended research of no more than 100 words.

Introduction

The proposal should provide a brief introduction, giving the background and introducing the research problem and motivation for research in this area.

Aims and Objectives

The proposal should give a description of both the high-level aims, identifying the project's overall purpose, and a detailed set of objectives, representing the major components of the project that will direct your research activities.

Research Methods

The proposal should outline your intended research methods, explaining how you are going to conduct and evaluate your research. For example, if you plan to investigate a computer system for medical diagnosis, you could outline the component techniques from machine learning and human-computer interaction (among others) that will be investigated, together with your proposed approach for integrating these techniques and evaluating the developed system.

Research Plan

The proposal should sketch the key tasks, milestones and deliverables of the project, together with an indication of the timescales involved, for example, in the form of a Gantt chart.

2. Research Literature Review (report)

You are also required to submit an in-depth review of previous academic work relating to the research problem under investigation. You should write your review in the form of a 4-page report using the IEEE conference paper format (<https://www.overleaf.com/latex/templates/preparation-of-papers-for-ieee-sponsored-conferences-and-symposia/zfnqfzzzxghk>) with a maximum of 4 pages excluding references. References must be presented in the correct IEEE format. Appendices or additional pages are not allowed. The report should be written in your own words, summarising and analysing the research background for your project, including discussion of the alternative research methods considered within the research proposal. You should also discuss the selection of papers and articles to include in the literature review with your project supervisors.

Please note that all work is assessed according to the University of Lincoln [Management of Assessment Policy](#) and that marks awarded are provisional on Examination Board decisions (which take place at the end of the Academic Year.

Feedback Format:

Written and numerical feedback will be provided via Blackboard, and verbal feedback will be provided during the poster session meeting.

Additional Information for Completion of Assessment:

This assessment is an individually assessed component. Your work must be presented according to the Lincoln School of Computer Science guidelines for the presentation of assessed written work. Please make sure you have a clear understanding of the grading principles for this component as detailed in the accompanying Criterion Reference Grid (CRG).

If you are unsure about any aspect of this assessment component, please seek the advice of a member of the delivery team.

Assessment Support Information:

Assessment support will take place at the initial and final workshops of the semester.

Important Information on Dishonesty & Plagiarism:

University of Lincoln Regulations define plagiarism as 'the passing off of another person's thoughts, ideas, writings or images as one's own...Examples of plagiarism include the unacknowledged use of another person's material whether in original or summary form. Plagiarism also includes the copying of another student's work'.

Plagiarism is a serious offence and is treated by the University as a form of academic dishonesty. Students are directed to the University Regulations for details of the procedures and penalties involved.

For further information, see plagiarism.org