University of Lincoln Assessment Framework

Assessment Briefing Document

Module Code & Title CMP9767M – Robot Programming (***ITEM 2 – REPORT***)	

Contribution to Final Module Mark

40%

Description of Assessment Task and Purpose

In this assessment, you will be writing a report about the artefact that you have developed as part of assessment item 1 in the style and format of a scientific paper. This report should not be a documentation of your implementation, but focus on the concepts, the scientific background, and its evaluation.

Learning Outcomes Assessed

- LO1: critically appraise the theoretical capabilities of existing state-of-the-art robot system algorithms and components
- LO2: understand and critically appraise the requirements and limitations of robot algorithms and components
- LO4: critically evaluate and comprehensively report implementation concepts and research findings

Knowledge & Skills Assessed

- Academic writing
- Quantitative evaluation and scientific analysis
- Appraising existing state of the art and critically reflect on existing solutions

Assessment Submission Instructions

You will produce a report about your developed artefact in the form of an academic research paper. This paper shall be written in the official IEEE transaction style. MS Word and LaTeX templates are available for download from https://www.ieee.org/conferences/publishing/templates.html. We recommend you use OverLeaf and instantiate the LaTeX template from there: https://www.overleaf.com/latex/templates/ieee-journal-paper-template/jbbbdkztwxrd

In your report, you should cover

- The aim and specific objectives of your developed artefact, including some motivation as to why this artefact has some significance;
- Related work, referring to other researchers' works on a similar task, and discussing these in the direct context to your work;
- The concept of your system architecture and the choice of algorithms or components you made to develop your artefact. You should back your choices with academic references to make a clear argument for your design decisions and chosen algorithms;
- The evaluation of the artefact using appropriate quantitative methodology. Your evaluation should be focused on your chosen *focus area* (see assessment item 1 briefing document). You must adopt suitable evaluation metrics and methodologies established in the field, reflecting the chosen focus area.

The report must not exceed 4 pages following the style guidelines, including all references. You are encouraged to include appropriate figures and plots in your work. You are advised to look at the style and structure of existing research publications.

Format for Assessment

This assessment is individually assessed. 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.

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

You must submit your work as a <u>single PDF</u> via Blackboard in the respective submission area for this assignment.

Feedback Format

You will receive detailed written feedback via blackboard, individual for each marking criteria as detailed in the Criterion Reference Grid (CRG).

Additional Information for Completion of Assessment

Ensure you use the interactive sessions with the module team to receive intermediate feedback on draft versions of your report. Actively ask questions.

Assessment Support Information

https://github.com/LCAS/CMP9767M/wiki

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 www.plagiarism.org