

## **Assessment 2 Question (Individual Task)**

### *Instructions*

Please also refer to the subject outline for more details about this task.

The due date and time is on Sunday, 9/04/2023, 23:59pm.

- This assessment is an individual task.
- Submissions will be made through UTS Canvas.
- Tutors will mark their student submissions and submit their results to the lecturer for validation.
- Marks will not be released until all assessments have been marked and validated – this is to ensure the same marking levels are maintained across studio sessions.
- Your tutor will distribute marks and feedback and address marking questions.
- All communications must use your UTS e-mail account – other e-mails may be ignored.

### *Assessment task 2: Identify a research problem*

In this assessment, you are requested to identify a research problem based on your study so far. In general, you can identify one problem from your mini-survey (the mini-survey is an overview about the research branch, now you need to narrow down to a specific problem in the research branch, and study the problem in details). However, you are free to take a problem from a new research domain that you feel suitable for you..

*Note: We expect you to offer simple solutions for the identified problem in assignment 3. In the case that you cannot figure out new solutions in assignment 3, you can choose a suitable research paper, and repeat (not copy) all or part of their solutions.*

#### Requirement

1. Please include the UTS assignment cover page containing the student name, number and signature.
2. 1500-2000 words, reference is excluded.
3. Your report should include at least the following parts.
  - a. the background or context of the identified problem.
  - b. a clear description or definition of the problem.
  - c. the reasons that you choose the problem.
  - d. the current major solutions to the problem, the pros and cons, respectively.
  - e. the challenges and difficulties to solve the problem.
  - f. the theoretical and/or experimental tools needed for the problem.
  - g. your plan and strategy to explore the solution space.
4. Your report should be in the format of a paper, including title, author, abstract, introduction, the sections from item 3, summary, and references.
5. The similarity of your report should not be higher than 30% (exclude the reference part).
6. Referencing tools are highly recommended, e.g., Endnote for MS word.

## *Marking Criteria*

The assignment 2 is 25 marks in the final result, and we will mark it according to the weights assigned in the table below.

	comments
Description of the problem (30%)	The correctness of the description. You have to describe the problem in your own language after a thorough study, copying from the existing papers is not allowed.
The analysis of the identification (30%)	The quality of the problem, the reasons for the choice, and feasibility.
The plan, strategies, methods, and tools (30%)	Reliability of the plan, suitability of the strategies, methods, and the tools.
Writing and presentation (10%)	Readability of the report, integrity of the structure, and clearness of the presentation. Consistent style, clear tables and diagrams. Typos and language problems should be fixed by thorough proofreading.