

# **CS575 Summer Course Project Specification**

## **Purpose:**

The course project of CS575 is to design and implement an algorithm for solving a specific problem. Each of you should propose a topic and complete the project individually.

## **TYPES**

The project could be one of the following types:

1. Select and implement an algorithm that you have learned but have not yet implemented in the course.
2. Propose a new method or combine existing algorithms (including the ones that are covered or not covered by this course) with implementation for solving a practical problem.

Choose a project topic in the algorithm area. The project requires two documents (proposal and final report), both should be submitted on the scheduled due time.

## **PROPOSAL** (due July 27, 2022 by 11:59pm)

A proposal stating explicitly

- (1) Individual name,
- (2) project type (indicated as one of the above types),
- (3) what topic (or algorithm) you want to address, what you want to accomplish.
- (4) If you work as a team, you need to clarify how you will assign the work each other and what role you will take individually.

## **Project Report and Programming Codes** (due August 12, 2022 by 11:59pm)

Write up your final report, and submit along with your codes to the **BrightSpace** by the due time.

The final report should be about 5 pages long. In general, it should contain the following sections:

1. *Title of the project and names of students*
2. *Problem Statement.* Clearly state the problem and the objective of the project.
3. *Algorithm* description.
4. *Results and discussion.* Report your results, including outcome of the program, problems or bugs unsolved (if any), and /or time complexity of the algorithm.
5. *References (if any)*