

Project (45%)

Project is due on Tuesday, April 19, 2022, 11:59 pm.

Project: The objective of the project is to enable students to design, propose and adapt metaheuristic solutions to solve a real-world challenge. The topic can be selected according to the students' interest. A maximum of three students per project team is allowed. Project deliverables include a research paper (5-15 pages):

Abstract – approx. 1 paragraph

Introduction/literature review – approx. 1 to 2 pages

Optimization problem formulation – approx. 1 to 2 pages

Solution encoding and search operators – approx. 1 – 3 pages

Summary of the metaheuristics used, and heuristic rules – approx. 2 – 4 pages

Results – approx. 1 – 3 pages

Grading Rubric:

Quality of the research paper

Complexity of the search operators and solution encoding

Number of metaheuristics implemented

Complexity of the heuristic rules implemented within each metaheuristic

Discussion of the results

Final Oral Presentation (10 mins):

Thursday, April 21, 2022 - Lecture 10:00AM - 12:00PM – Think Thank 12