Assignment

Decision Analysis I

Fall 2024

Summary

In this assignment, you will produce a recommendation on the choice of an office location in Stockholm. The underlying reasoning should be partly based on information from fellow course participants to make it more realistic in that you do not get to generate all the input yourself. You will primarily work in pairs. In addition to handing in a report containing the decision recommendation and a description of the underlying reasoning, active participation in a small-group discussion during a seminar and writing a short reflection report is required.

1 Case

The data science consultancy firm *Statistical Reasoning* will start to offer its services to clients local to Stockholm. In-person meetings and visits to clients' facilities are a fundamental part of the firm's modus operandi. In addition to developing tools and performing analyses, Statistical Reasoning offers tailor-made training, on-site or in some other suitable venue; the ability to hold training sessions for smaller groups in the firm's office would be a plus as it provides better control over the environment.

In the quest for long-term and stable employment, the management of Statistical Reasoning has tasked its sister company *First-Class Analysts*—a decision analysis consultancy firm—to recommend a suitable office location, accounting for the values of the newly hired employees.

1.1 Alternatives

The final decision model should include three alternatives. One alternative is provided in the assignment, and you should generate the other two based on the values and needs of the office workers.

The default alternative comes from the commercial landlord the department is renting its offices and lecture halls from: `https://www.al.se/hitta-lokal/stockholm/slussen/katarinavagen-19-75-kvm/`

1.2 Objectives

There should be at least five objectives, including, e.g., rent and aggregate commute time for the two office workers.

Things to consider: Does the business have any special requirements, such as meeting rooms or facilities to accommodate a large group of people for presentations or training?

2 Report

The report should be structured as follows:

1. Titlepage, at least containing the date the report was finalized and the name of the authors

2. Introduction (meta-level[1])

3. Method (meta level)

4. Decision Analysis

5. Discussion (meta-level)

6. References

The sections Introduction, Method, Decision Analysis, and Discussion must not exceed 4000 words.

Additional requirements:

- Double-spaced text.

- Insert only self-produced figures and tables.

- Cite references as needed.

- Include page numbers

3 Formalities

3.1 Submission

Submit the report as a group to iLearn.

3.2 Grading

The grade for this assignment is Pass or Fail. The submitted reports will be marked within two weeks. Those who fail will have the opportunity to submit a corrected version within two weeks after the reports have been marked.

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[1]In this context, *meta-level* should be considered information to the teacher of an academic nature.

3.3 Requirements

These requirements are necessary but not sufficient.

- All work should be done in pairs (some may work in a triple) with an equal contribution and without help from outside (supervision does not count as *help*).

- All groups must

  - submit a report containing the decision recommendation and the underlying reasoning
  - take active part in a seminar
  - submit a reflection report.

- The report must be reasonably well structured

- Except for grammar, spelling, and language checks such as Grammarly, the use of various artificial intelligence tools is strictly prohibited—the group members should be the only authors of the report.