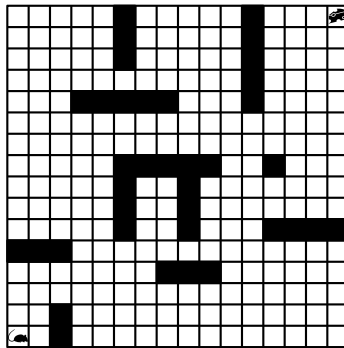# Advanced Problem Solving and Search
Tutorial 2

Lucía Gómez Álvarez

May 4, 2021

Exercise 2.1:
Design a Simulated Annealing Algorithm for the Maze Problem of Exercise 1.1.
Consider the following questions.

- How would do you represent a solution? If you are considering different options, discuss the pros and cons.

- How do you generate the initial solution resp. how do you ensure feasibility of solutions?

- What is the neighbourhood of a solution?

- What is the evaluation function?

Exercise 2.2:
Now, design a Tabu Search Algorithm for the same problem. Consider the following questions.

- Would you use the same representation, neighbourhood and evaluation function? Why?

- How do you organize the tabu list?

- What kind of aspiration criteria would you consider?

- How do you organize the long-term memory?