



Caixa Mágica
s o f t w a r e

Summer Internships 2017

Schedule Optimiser

Weekly Report - 07/08/2017-11/08/2017 (Week 5)

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Summary:

The algorithm now supports appointments with an uncertain start time, allowing it to eliminate idle times. It is now optimising the schedules according to the following parameters:

- Minimise the number of teams;
- Minimise travel times;
- Minimise lost time due to small intervals between appointments (it's being assumed that intervals of less than 3 hours are lost time, but this value can easily be changed).

There is always a trade-off when using more than one optimising parameter, the more the parameters, the more general the solution, which implies worse specific results for the sake of an overall better solution.

Completed Tasks:

- Change the algorithm to support appointments with an uncertain start time (start times within specified intervals);
- Print to a file the differences between the new and the old schedule.

To-do:

- Graphical Interface;
- Refactor.