

Solving an Exam Scheduling Problem Using a Genetic Algorithm

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Abstract

This concise, one-paragraph summary should describe the general thesis and conclusion of your paper. A reader should be able to learn the purpose of the paper and the reason for its importance from the abstract.

The Problem

Consider a university, with all of its students, courses and classrooms. How does one try to build the best possible schedule for an exam session? A good schedule is a schedule where:

- There are no conflicts, such as two different exams in the same room at the same, or a student having two different exams at the same time.
- Students don't have too many exams in a very short time.
- It is bad for a room to have two exams directly one after another, as it doesn't give time for teachers and TAs to set up the room.

Considering a huge university like University of Toronto, with its 70000 students and numerous courses, making a good schedule by hand would be very tedious.

Approach and Implementation

Tools, algorithms, APIs, etc. that we used.

Evaluation

How we determined the success of our project. Did we solve it? Effectively? Labelled images, graphs and/or tables can be useful.

Conclusion

What have you learned because of your project? What can we learn from your project? Did it give you ideas as to things you might like to try next?