Academic career planning using bayesian network

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Abstract

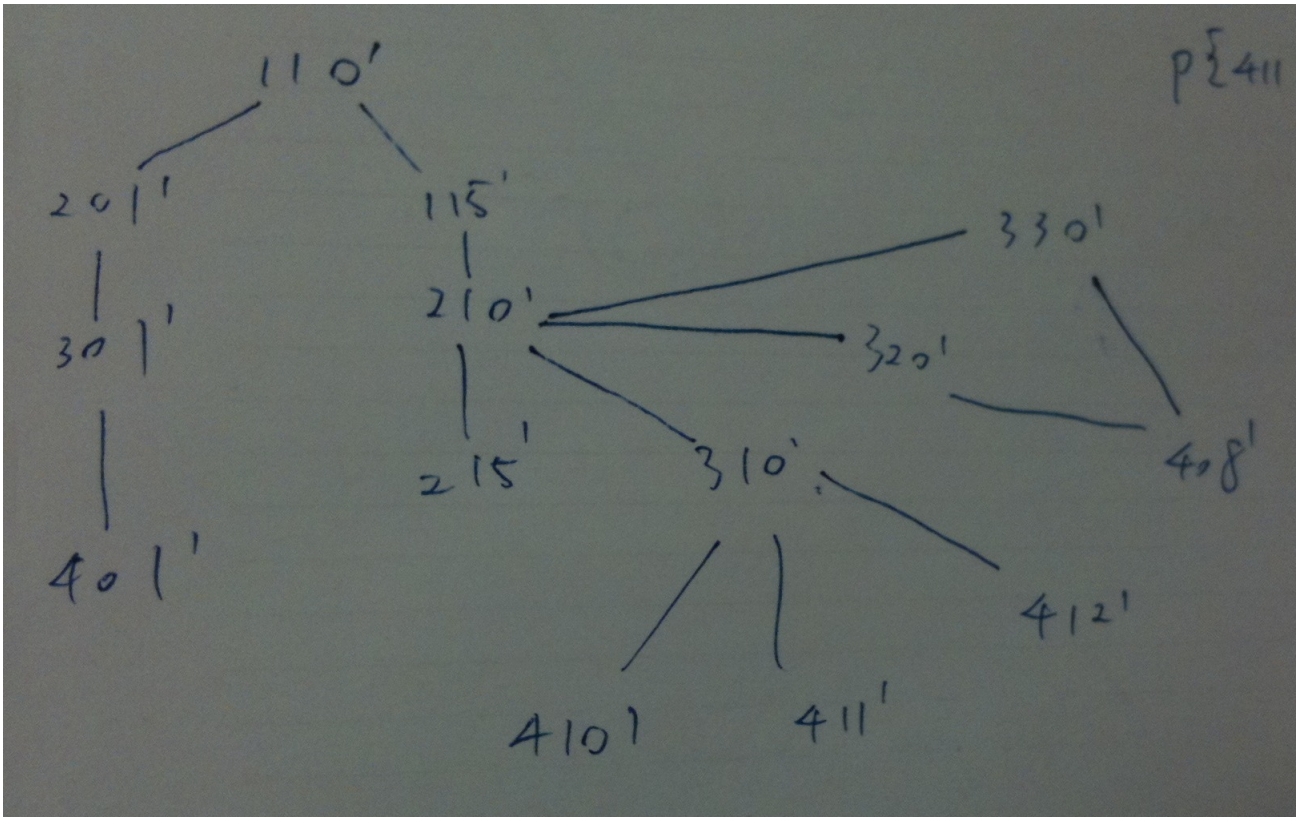
This is the paper's abstract ...

1 Introduction

Using node.js, Dlib C++ Library to build an web application that answers student queries about carrer planning questions.

2 Design

Here is a directed acrylic graph A to represent the course prerequisite relations.



i.e Querying the probability of taking CS411 in the future, provided student have taken CS110:

1. Search the shortest path between $110'$ to $411'$ in A

2. Which is $110' -> 115' -> 210' -> 310' -> 411'$

3. The length of this path is 4, which means student needs at least 4 semester to finish CS411, provided there is no class not bing offered during these semesters.

4. If there are classes in the path not being offered, we need to add extra semesters accordingly.

5. Run JTP on A, query $P\{CS411 = 1 \mid CS110 = 1\}$

6. Provide feedback to student, telling the least semesters he need to finish CS411 with a probability.

3 Previous work

A much longer LaTeX 2_ε example was written by Gil [**?**].

4 Results

In this section we describe the results.

5 Conclusions

We worked hard, and achieved very little.