



Laboratory project improvements

- Intelligent Systems -

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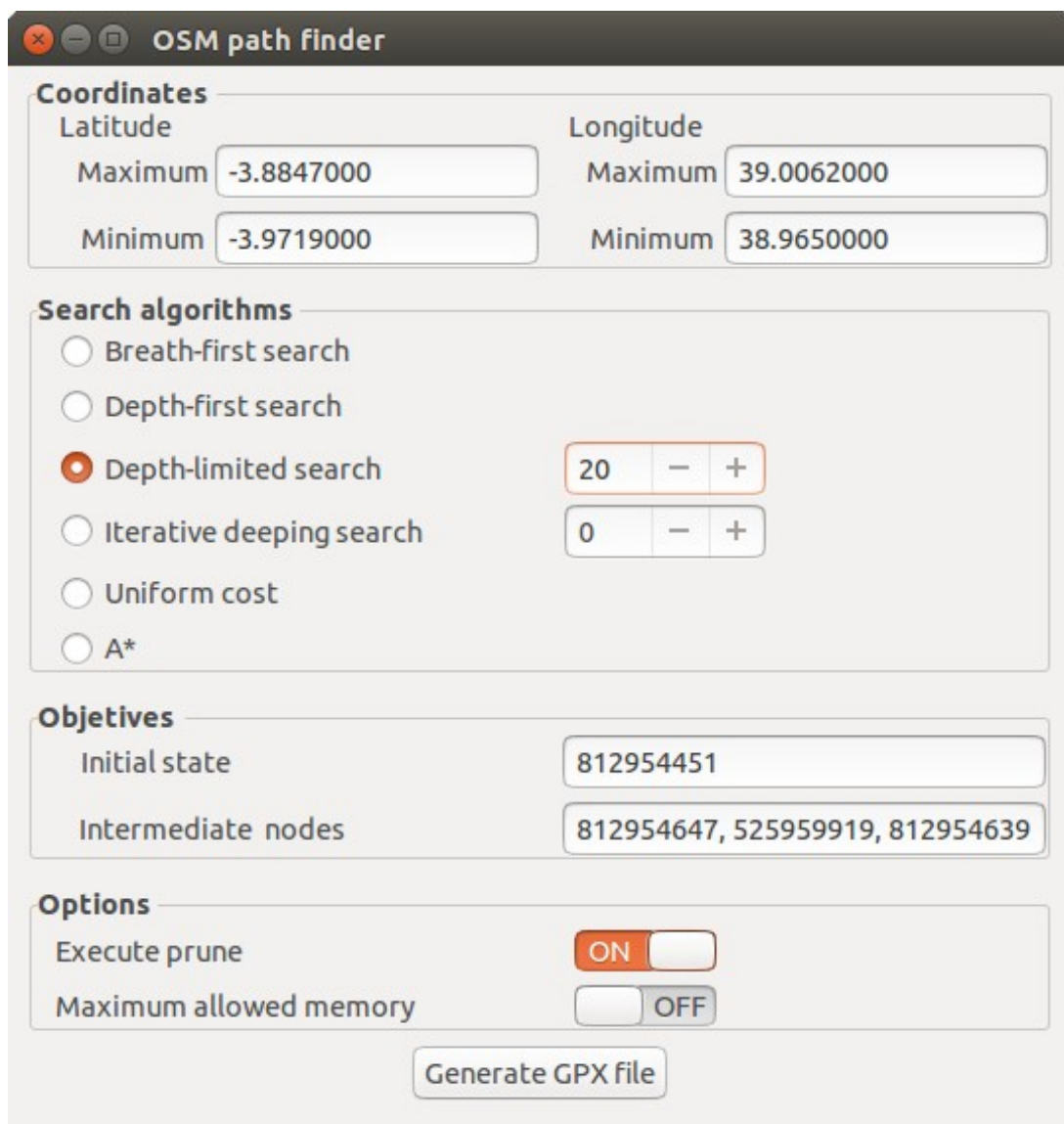
Introduction

This GUI is a mere interface for executing the program which has been developed throughout the course. It will gather up the input data from the user avoiding they to remind and use the terminal's complex syntax.

Interface

It has several input boxes devoted to the different kinds of data expected from the user to define. Buttons and labels are aimed to be self-explicative and user-friendly.

After having completed all the input data and pressed the “Generate GPX file” button the interface will collect the information and execute the laboratory program.



The screenshot shows a window titled "OSM path finder" with a dark header bar. The interface is organized into several sections:

- Coordinates:** Contains two columns of input fields. The left column is for Latitude, with "Maximum" set to -3.8847000 and "Minimum" set to -3.9719000. The right column is for Longitude, with "Maximum" set to 39.0062000 and "Minimum" set to 38.9650000.
- Search algorithms:** A list of radio buttons for selecting a search algorithm: "Breath-first search", "Depth-first search", "Depth-limited search" (which is selected), "Iterative deeping search", "Uniform cost", and "A*". To the right of "Depth-limited search" is a numeric input field set to 20 with minus and plus buttons. To the right of "Iterative deeping search" is a numeric input field set to 0 with minus and plus buttons.
- Objetives:** Contains two input fields. "Initial state" is set to 812954451. "Intermediate nodes" is set to 812954647, 525959919, 812954639.
- Options:** Contains two toggle switches. "Execute prune" is turned ON. "Maximum allowed memory" is turned OFF.

At the bottom center of the window is a button labeled "Generate GPX file".

[Glade 3.18](#) has been used for this task. This open-source program allows to create graphical user interfaces and to link to its events by means of its API.

Bibliography

<https://glade.gnome.org/>

<http://www.pygtk.org/articles/pygtk-glade-gui/>

<http://www.micahcarrick.com/gtk-glade-tutorial-part-1.html>