USER'S MANUAL

Quadratic Spline Interpolation,
Polynomial Regression, and
Simplex Method

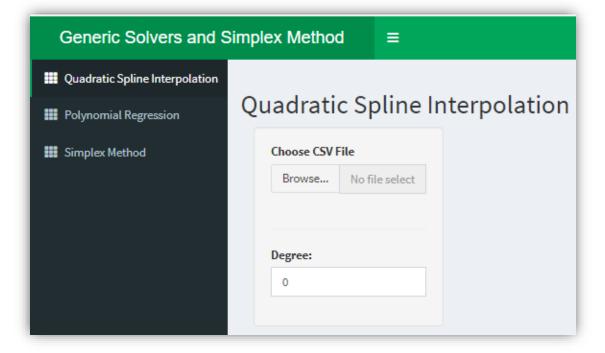
How to operate:

- Make sure you have RStudio installed in your device. RStudio is a free software; you can download it for free or paid from https://rstudio.com/products/rstudio/download/
- 2. Extract the *.zip file.
- 3. Read the *.txt files for additional libraries that may be needed to fully and properly run the application.
- 4. Follow the instructions provided and run the application.

Quadratic Spline Interpolation (QSI) and Polynomial Regression

- ⇒ To use the feature, create a *.csv file, containing x and y inputs (i.e. a list of pairs of x and y values) or use the provided file that comes along with the compressed file .
- ⇒ In the right tab panel, select Quadratic Spline Interpolation (by default, the application starts in the QSI screen/tab) or Polynomial Regression, depending on your choice.
- ⇒ Choose your file by interacting with the Choose CSV file feature.
- ⇒ Enter a number in the field provided below.

If the above instructions are executed correctly, the current screen will display the solution. For reference, see image below:



For Generic Solvers and Simplex Method

Simplex Method

- \Rightarrow To use the feature, fill up the tables provided in the screen.
- ⇒ In the right tab panel, select Simplex Method.
- ⇒ Fill tables one and two by navigating through the 2 tabs in the current screen. Make sure to save after completing each field.
- \Rightarrow After saving inputs for tables 1 and 2, click on the Solution Table tab.

If the above instructions are executed correctly, the current screen will display the solution. For reference, see image below:

