Plotting Guidebook

Before start plotting the stress-strain curve, please be sure that you have done all the “properties predicted” files from machine\_learning way or deep\_learning way.

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1. Choose the “properties predicted” files

Please kindly choose these five files path:

Ultimate.csv

Yield.csv

Elongation.csv

K\_VRH.csv

G\_VRH.csv

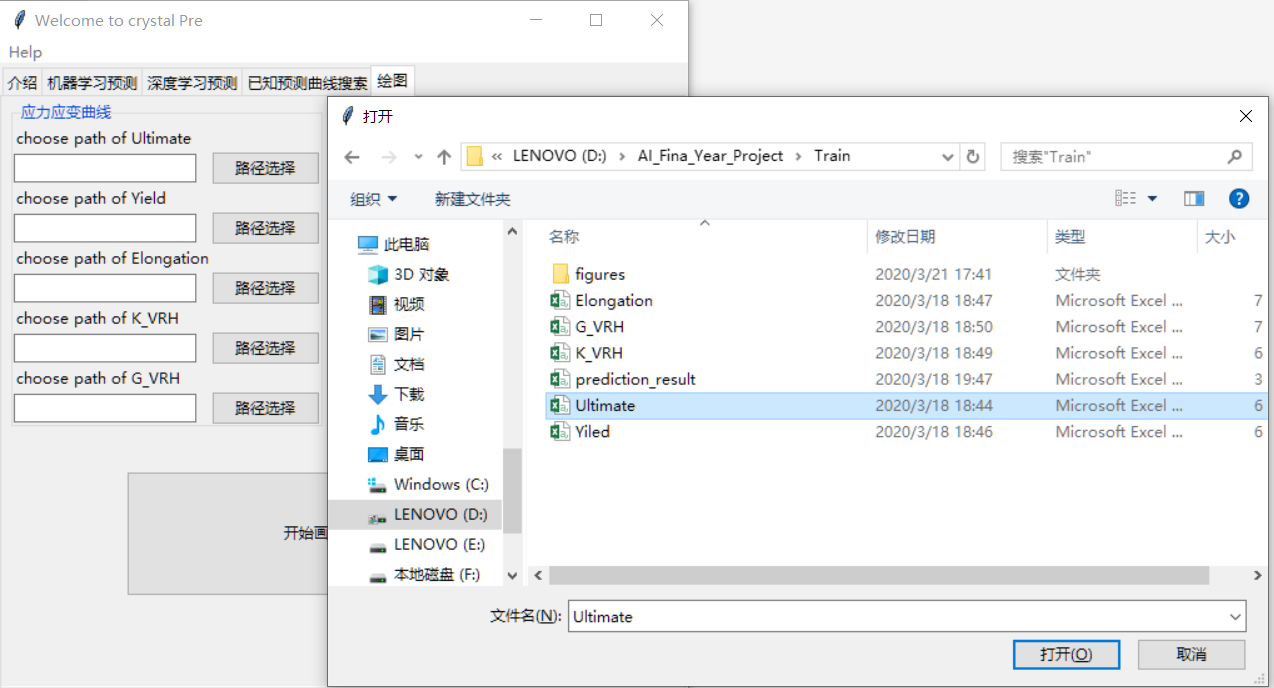


Figure1. choose the file path properly



Figure2. choose the file path properly

2. Choose the stored folder

Then please choose the folder for figures and results

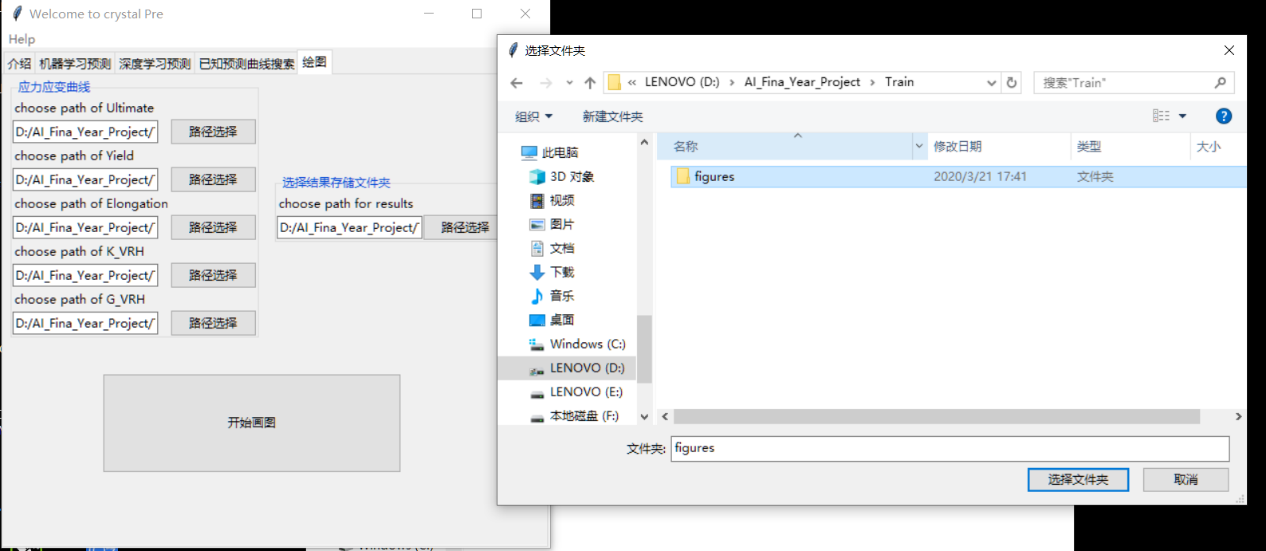


Figure3. choose the folder path for storing

3.Start plotting and analysis the figures and results

Click the button, after plotting, the folder will open automatically

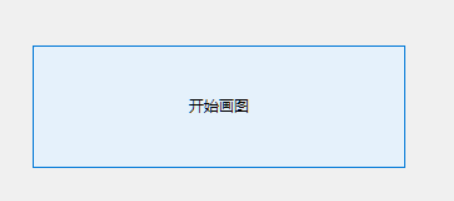


Figure4. Click the button

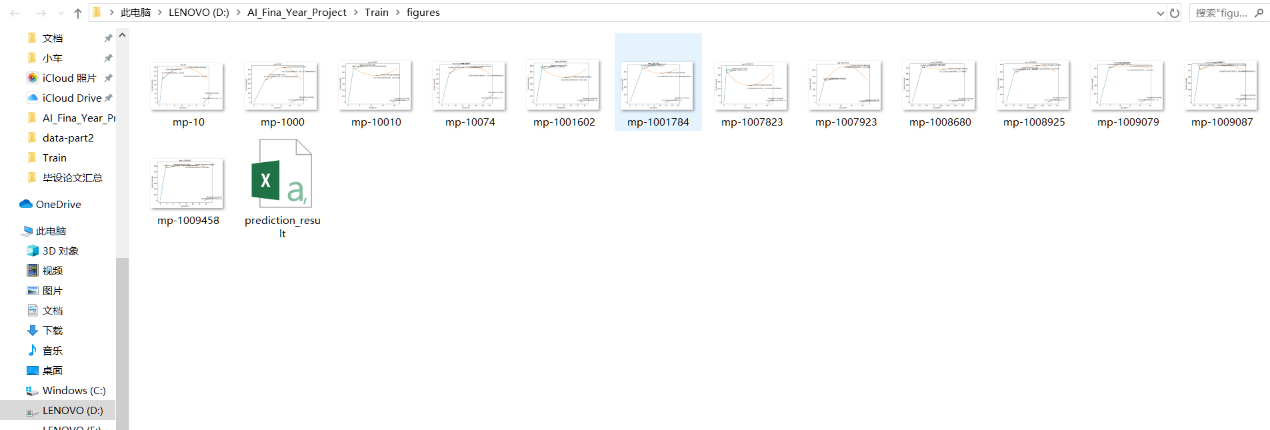


Figure5.Folder will open automatically

Here we have two kinds of documents, plotting figures and prediction\_result.csv

From the prediction\_result.csv, you can get values for these attributes:

1.Bulk module, which named elasticity K\_VRH predicted

2.Shear module, which named elasticity G\_CRH predicted

3.Young’s module, which named youngs

4.Poisson rate

5.Stiffness

6.Flexibility

7.Tensile Strength, Ultimate

8.Tensile Strength, Yield

9.Elongation at break

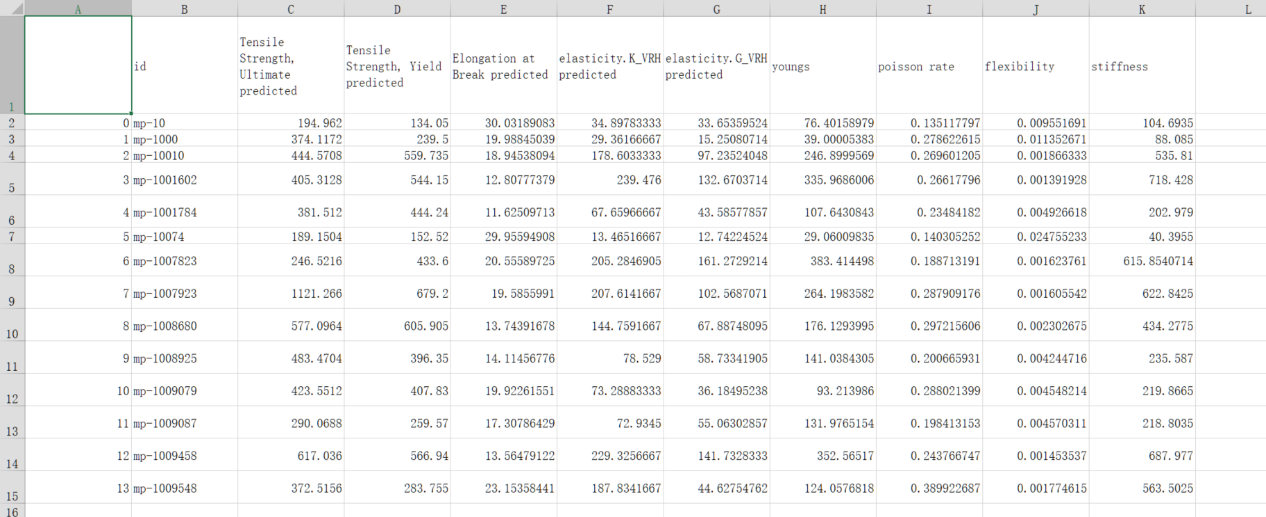


Figure6.An example of prediction\_result.csv