Curve Matching Using the Fast Marching Method Tool

This tool implements the algorithm presented in the paper:

Max Frenkel, Ronen Basri: "Curve Matching Using the Fast Marching Method." EMMCVPR 2003: 35-51

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http://www.wisdom.weizmann.ac.il/~vision/CurveLab/

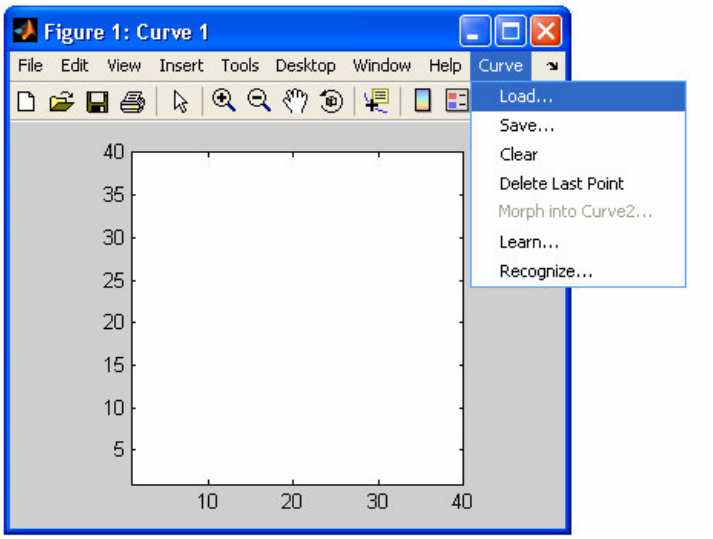
Unzip the file **CurveLab.zip**

Type in MATLAB command line (from the main folder):

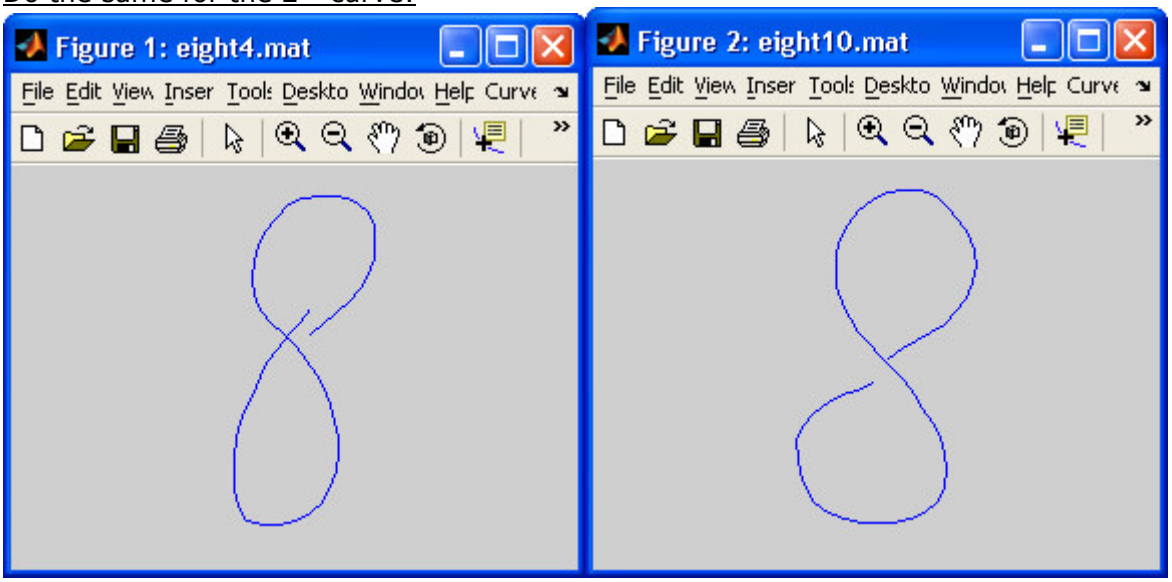
>> **curveLab**

Four windows will appear:
Figure 1 - Curve 1
Figure 2 – Curve 2
Figure 3 – Processing
Figure 4 – Contour View

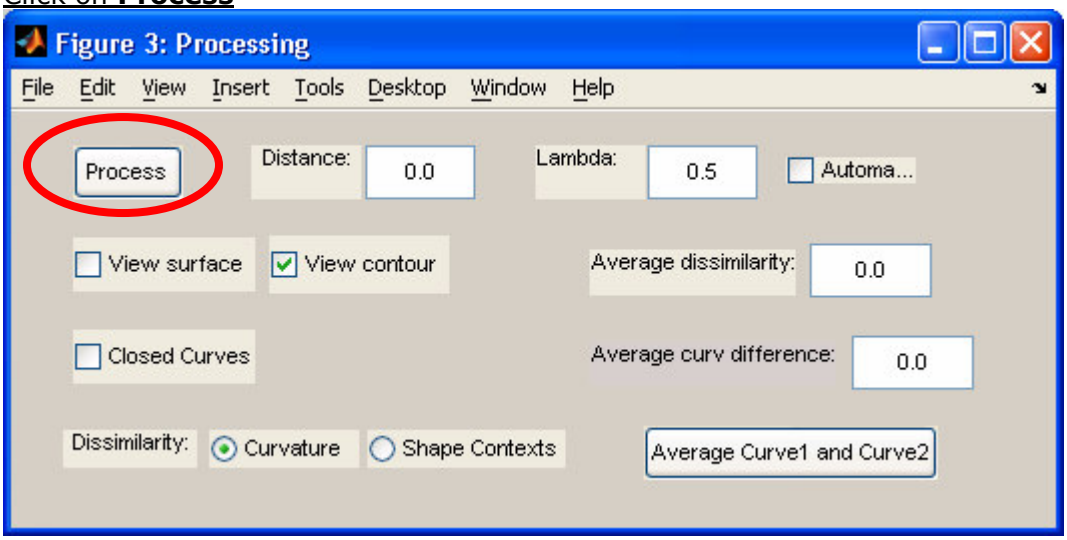
Load the 1st curve from the folder **database**:



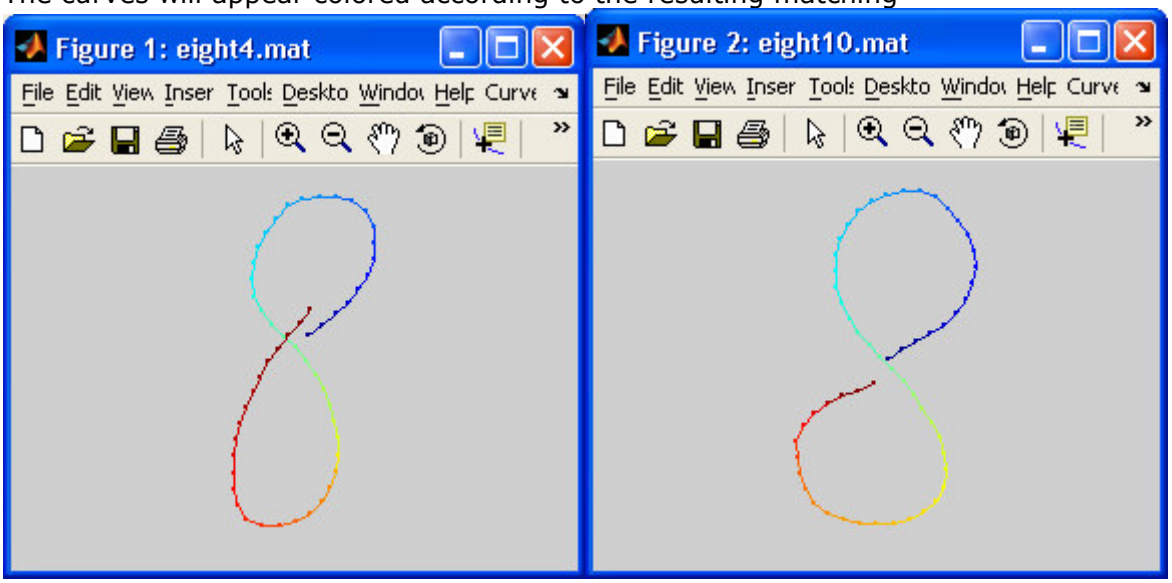
Do the same for the 2nd curve:



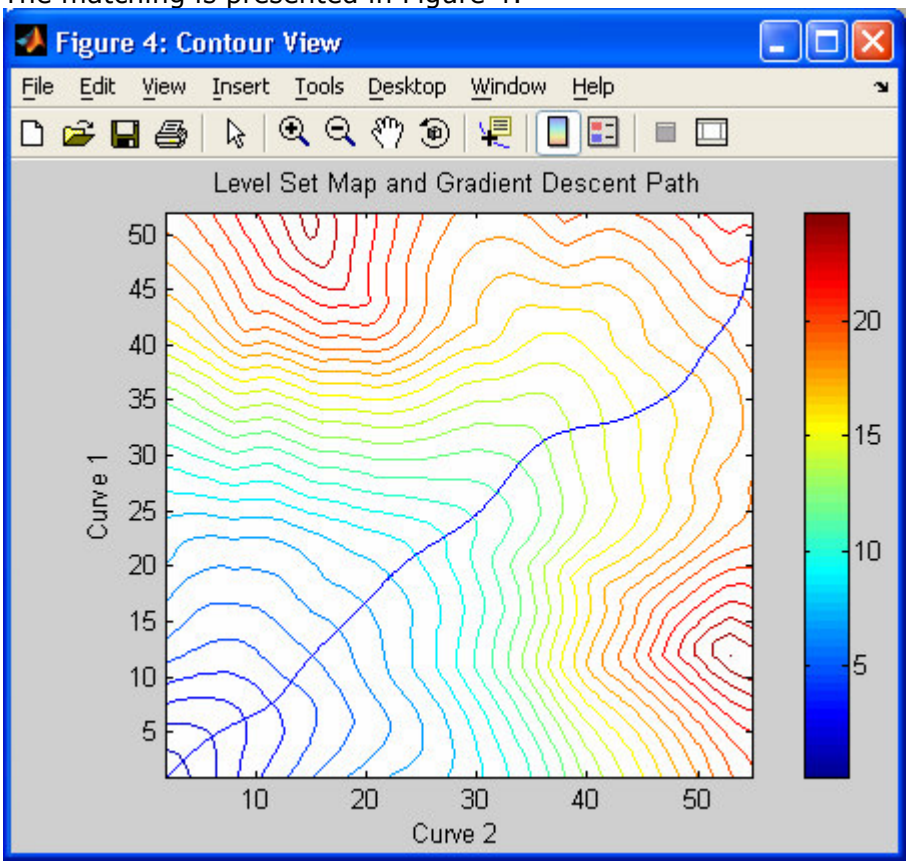
Click on **Process**



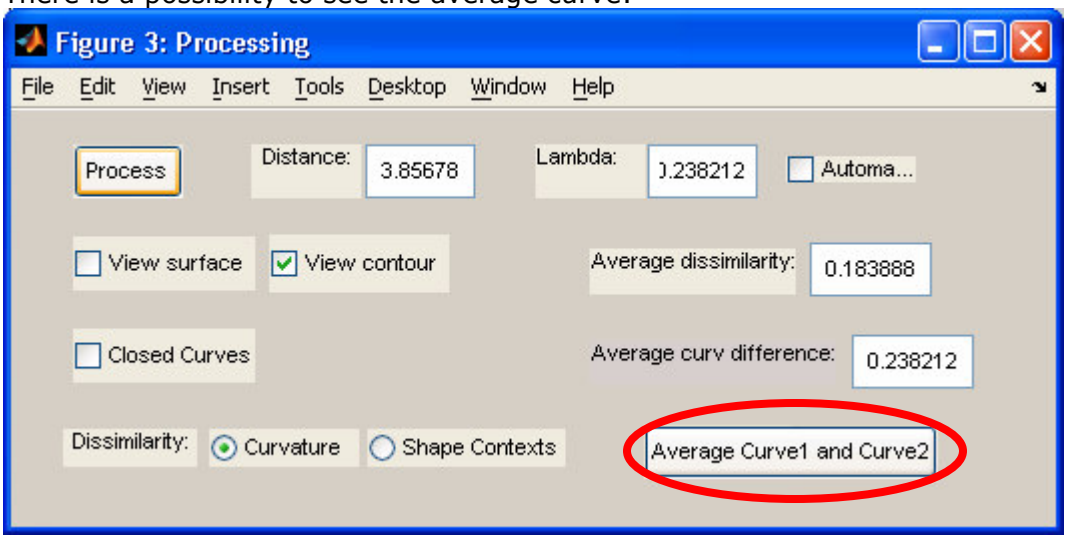
The curves will appear colored according to the resulting matching

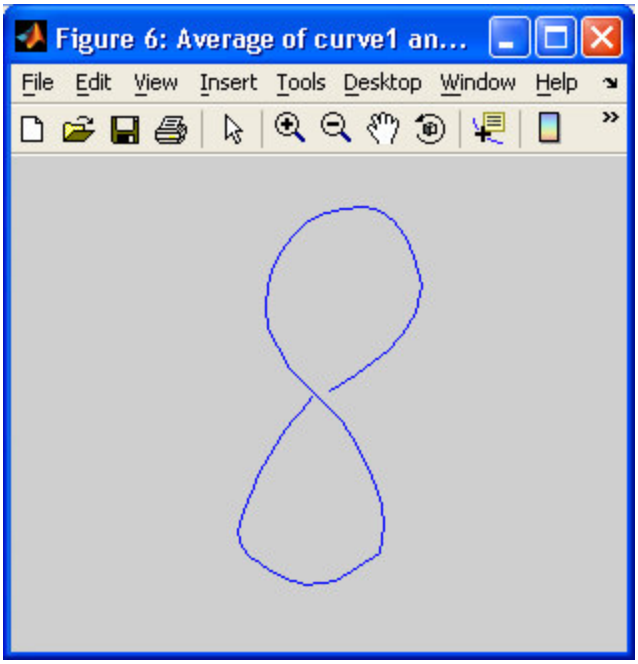


The matching is presented in Figure 4:

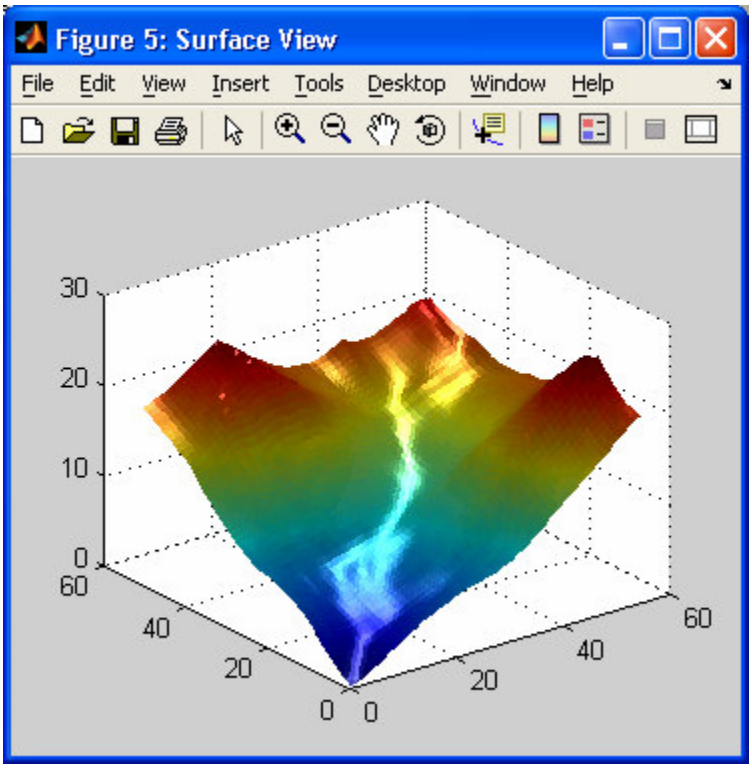


There is a possibility to see the average curve:



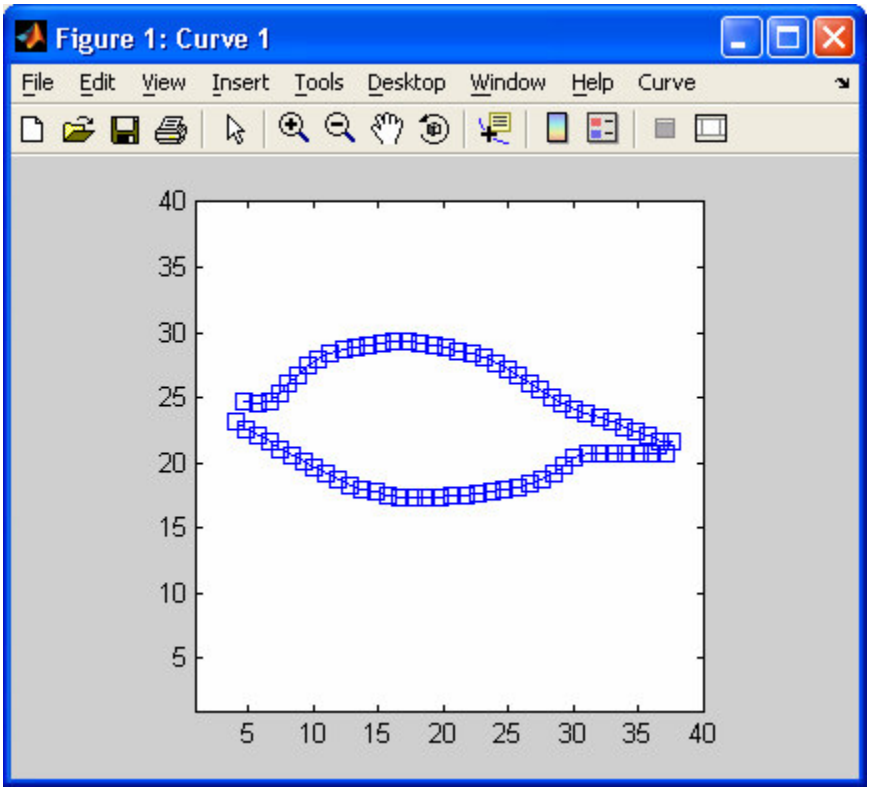


by checking the option ‘View Surface’ we get the matching as a surface



Draw your own curves and match them

Instead of loading curves 1 and 2 draw them by dragging the mouse inside the plot. For example:



Use Menu option 'Curve->Clear' if you want to fix the shape…