

## Instructions and Software Requirements to Use the Matlab GUI

- The GUI of Chapter 9 was produced using Matlab 7.1, which supports the Symbolic and Optimization toolboxes. Before attempting to run the GUI, the user must make sure that her or his Matlab version is supplied with these toolboxes.
- The user must check that the IDPGUI folder is set up to enable writing (folder should not be set to “read only” mode!) in order to allow for saving work produced by the user when entering other data than those supplied with Examples 1 and 2.
- In order to activate the GUI, open a Matlab terminal and run `INPUT.m`.
- DATA with units of length can be given in the units of choice of the user, provided that all the data items bear the same units. Angles are assumed to be given in degrees.
- The meaning of *characteristic length* and its relevance in the numerical solution of the inverse displacement problem of general serial, six-revolute robots are available in Chapters 5 and 9, respectively. A short account of the same concept is given in the second window of the GUI.
- When numbering the contour intersections, it is advisable to do this in terms of the distance of the apparent intersection from the origin, with 1 assigned to the closest intersection.
- The units of the characteristic length are those of all the lengths in the data.