1. The plots Figure 5.7a and Figure 5.7b related to shape memory alloy and flexible boundaries use FEM with UMAT (details seen in .for file) conducted in commercial software Abaqus. The x value is the input temperature and the y value is the bending angle as the output by simulations.
2. Figure 5.8, Figure 5.9, and Figure 5.10 are plotted by the sensing algorithm and control process (details seen in .ino file and .py file), in which x values are the input of time in seconds and y values are the results.
3. The procedures of how to run .inp file in abaqus is shown in README SMA, how to run .ino file and .py file to get the data are shown in README\_imaging, and README\_CONTROL file.