Example:

Build a fuzzy expert system which recommends the amount that should be given for a tip in a restaurant, based on the service and the quality of food.

1. Fuzzify Inputs

2. Apply Fuzzy Operators
3. Apply Implication Method

4. Aggregate All Outputs

5. Defuzzification

The centroid of the area under the aggregated output corresponds to the crisp value which is the output result.

Implementing with Matlab

The details of how to implement a fuzzy expert system using Matlab can be found in:


Click on the User’s Guide and the link Building Systems with the Fuzzy Logic Toolbox found on the left frame.