Programming Assignment Sheet 2

Programming Assignment 2 Controller

Implement the concept of a controller based on a system of relational equations.

- a) Enable the user to enter finite crisp sets X and Y with an arbitrary number of elements. Examples are given in the ending slides of the lecture on fuzzy rule bases with classes of cars and possible maximum speeds.
- b) Let the user enter corresponding fuzzy sets μ_1, \ldots, μ_r on X and ν_1, \ldots, ν_r on Y.
- c) Write a function that computes the greatest solution for each $\mu_i \circ \varrho = \nu_i$.
- d) Write a method that outputs the greatest solution for all $\mu_i \circ \varrho = \nu_i$.
- e) Write a main method that combines a) to d) so that, fuzzy sets can be entered and the greatest solution for all $\mu_i \circ \varrho = \nu_i$ is the output of the program.