Contemporary Data Processing Technology (CCOD)

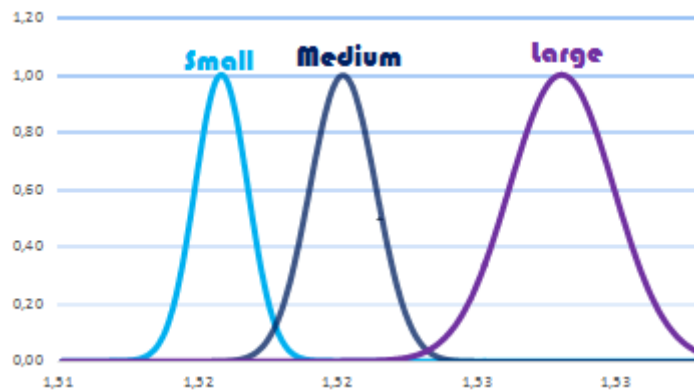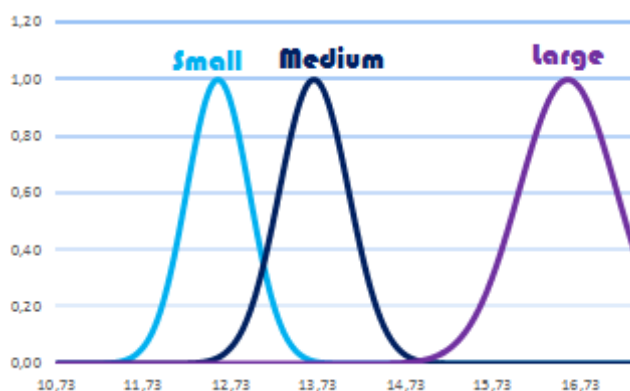**Lab 8 (October 17, 2016)**

Glebik Roman, AS-36

Membership function for attribute x1:

Membership function for attribute x2:

Membership function for attribute x3:

Membership function for attribute x4:
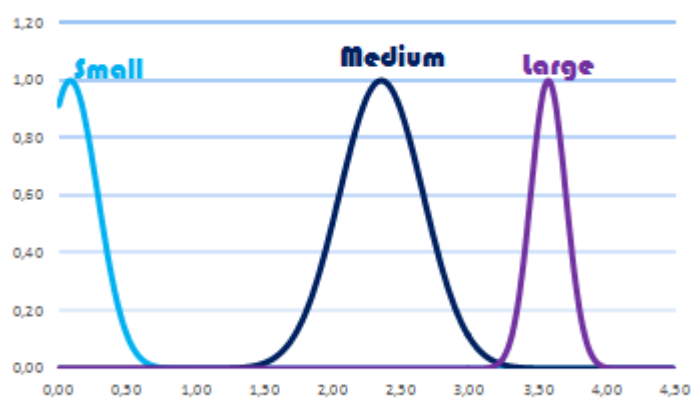

Membership function for attribute x5:

Membership function for attribute x6:

Membership function for attribute x7:

Membership function for attribute x8:

Membership function for attribute x9:
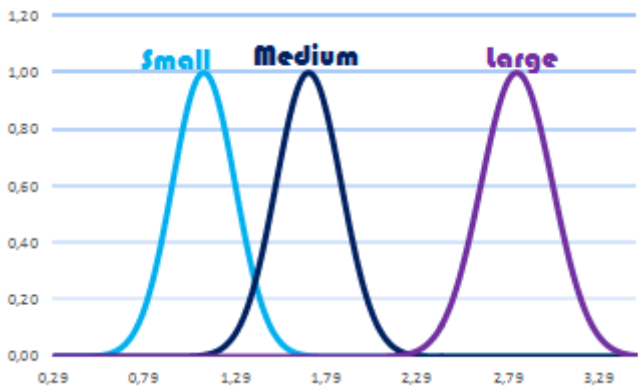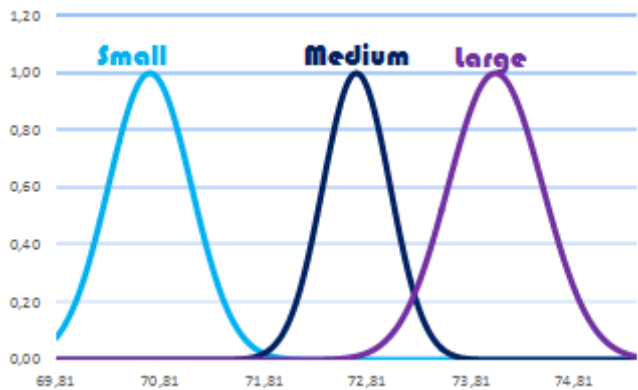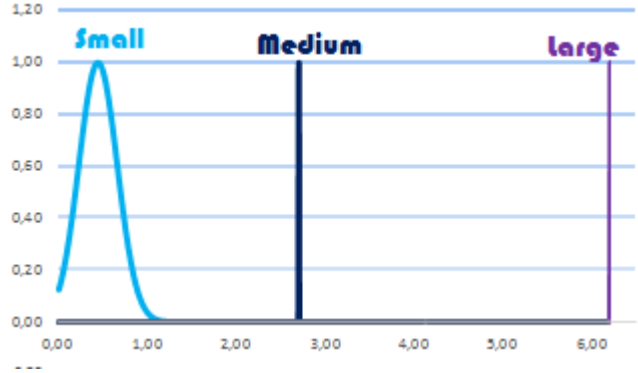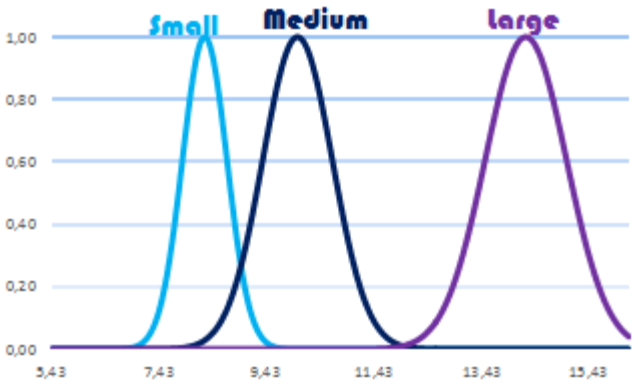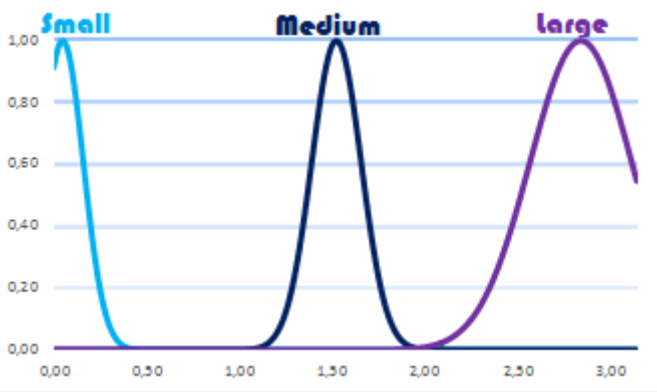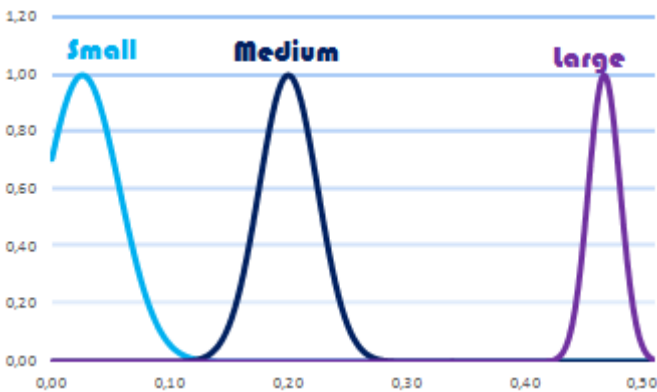

Table of rules:

IF X1	AND X2	AND X3	AND X4	AND X5	AND X6	AND X7	AND X8	AND X9	THEN
SMALL	SMALL	SMALL	SMALL	MEDIUM	SMALL	MEDIUM	SMALL	SMALL	1
SMALL	MEDIUM	LARGE	MEDIUM	MEDIUM	SMALL	SMALL	SMALL	SMALL	2
SMALL	MEDIUM	LARGE	SMALL	MEDIUM	SMALL	SMALL	SMALL	SMALL	3
MEDIUM	MEDIUM	SMALL	MEDIUM	SMALL	MEDIUM	SMALL	SMALL	SMALL	4
SMALL	SMALL	SMALL	MEDIUM	MEDIUM	SMALL	MEDIUM	SMALL	SMALL	5
SMALL	MEDIUM	SMALL	LARGE	LARGE	SMALL	SMALL	SMALL	SMALL	6
MEDIUM	MEDIUM	SMALL	MEDIUM	LARGE	SMALL	MEDIUM	SMALL	SMALL	OTHER

Conformity table:

No	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6
#1	3	3	3	5	5	5
#2	3	1	3	5		6
#3	3	2				2
#4	3	2				
#5	3	2				
#6	3	1				
#7	3	3				
Success rate	0%	43,00%	100%	0%	100%	33%

There are two possible reasons for incorrect results:

1.The data for glasses can be a little bit wrong, so the rules doesn't show the good result.

2.For each type of glass can be alternative rules, and I have chosen the wrong.