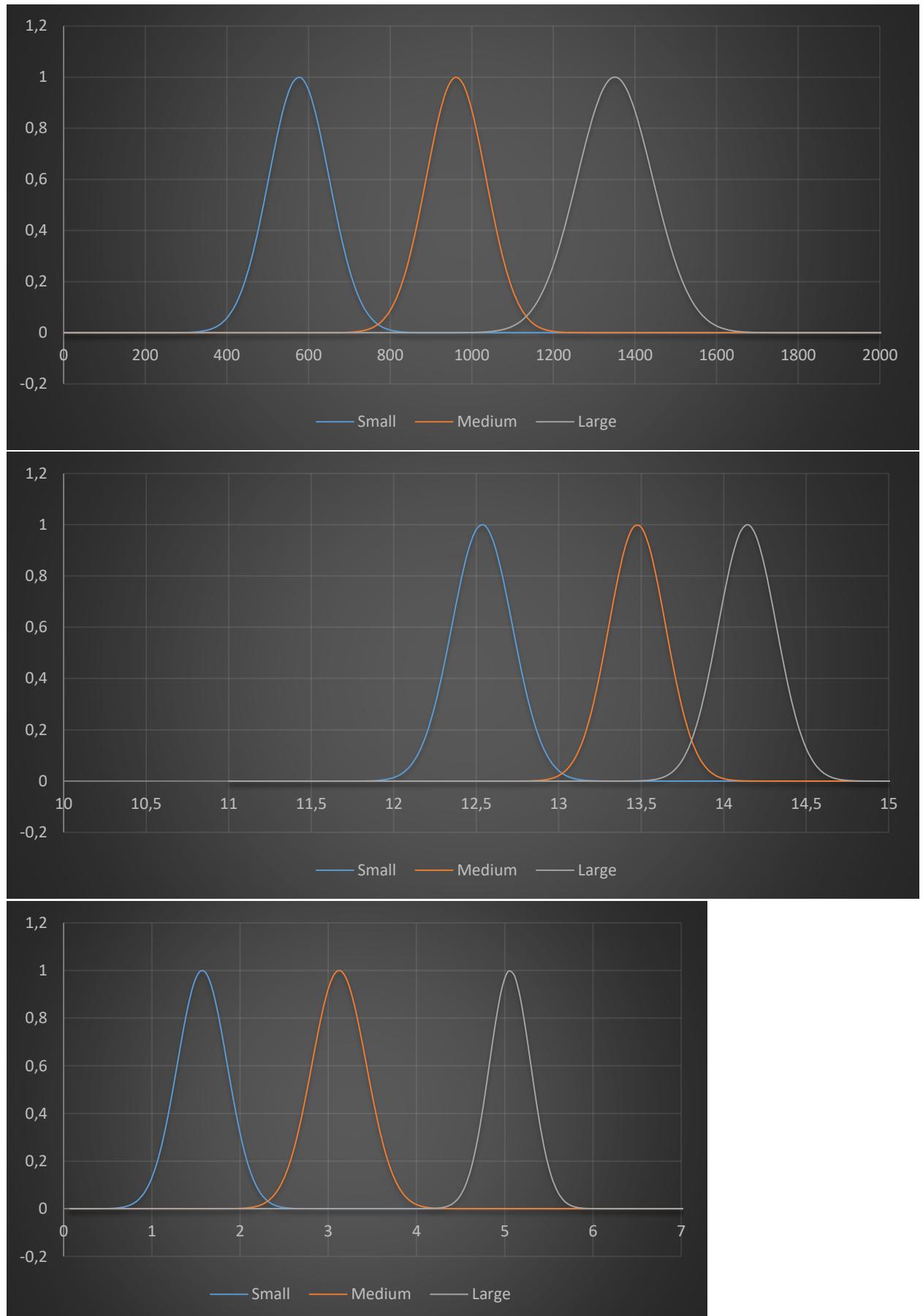
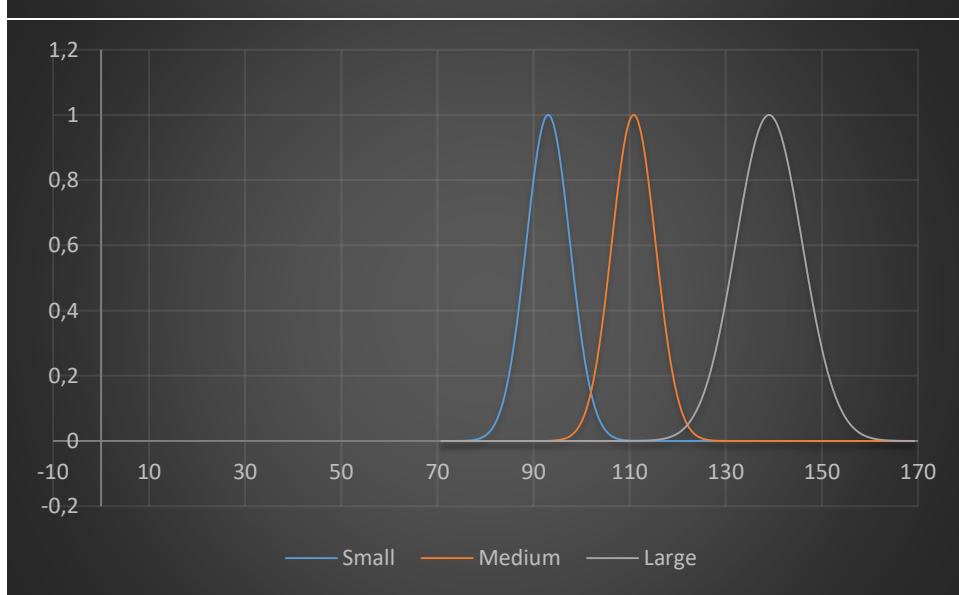
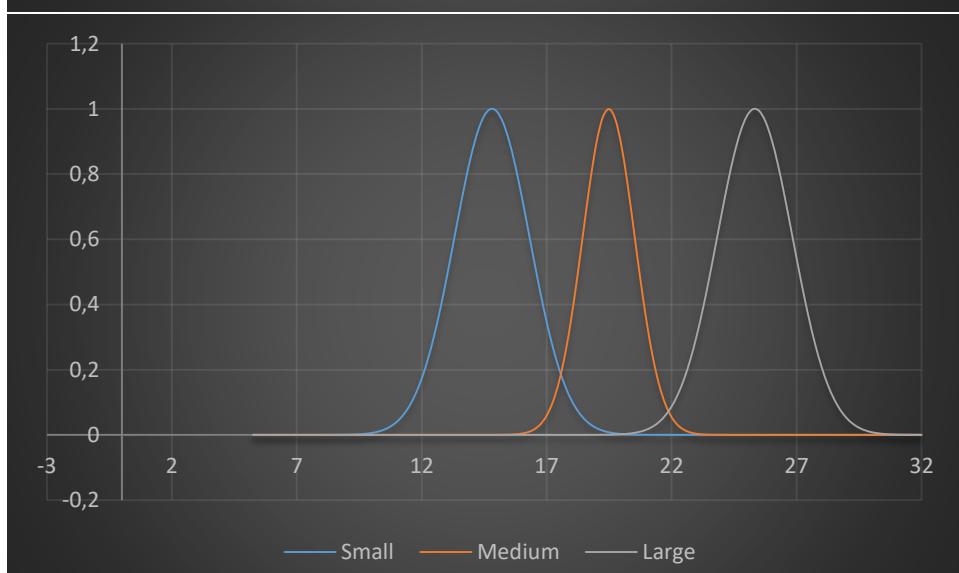
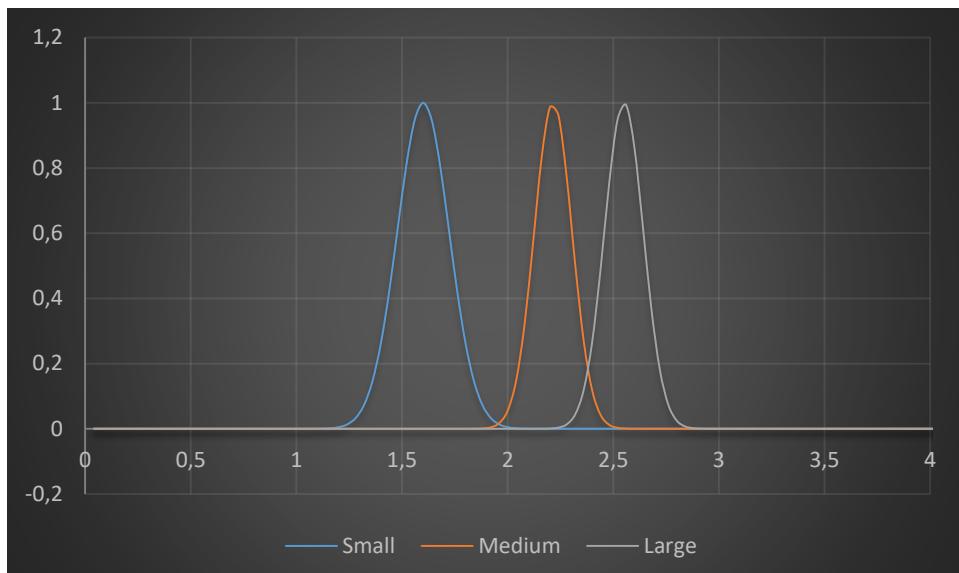
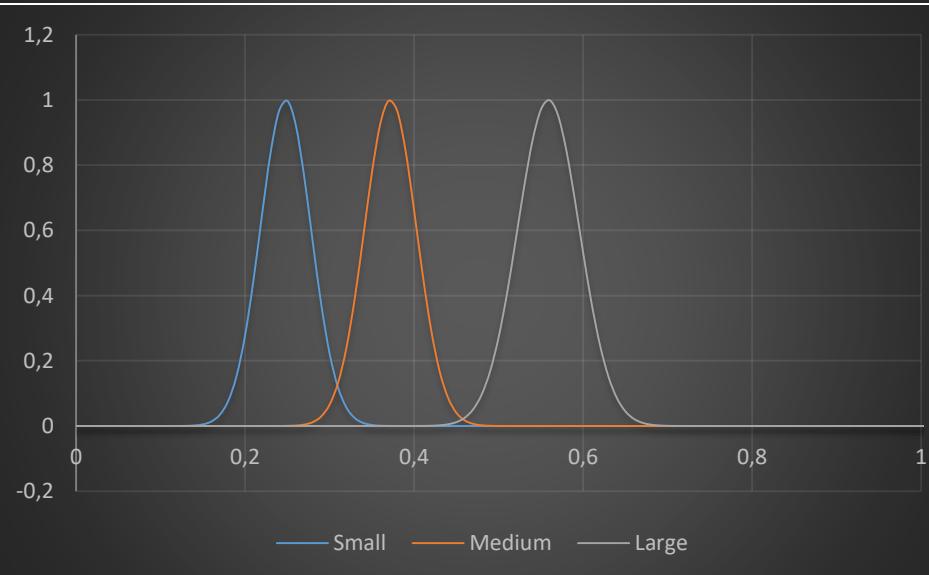
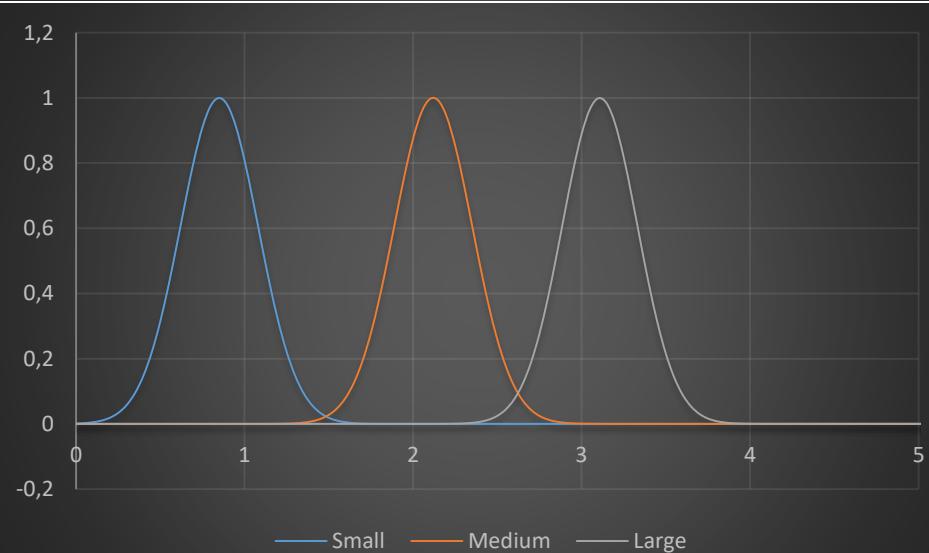
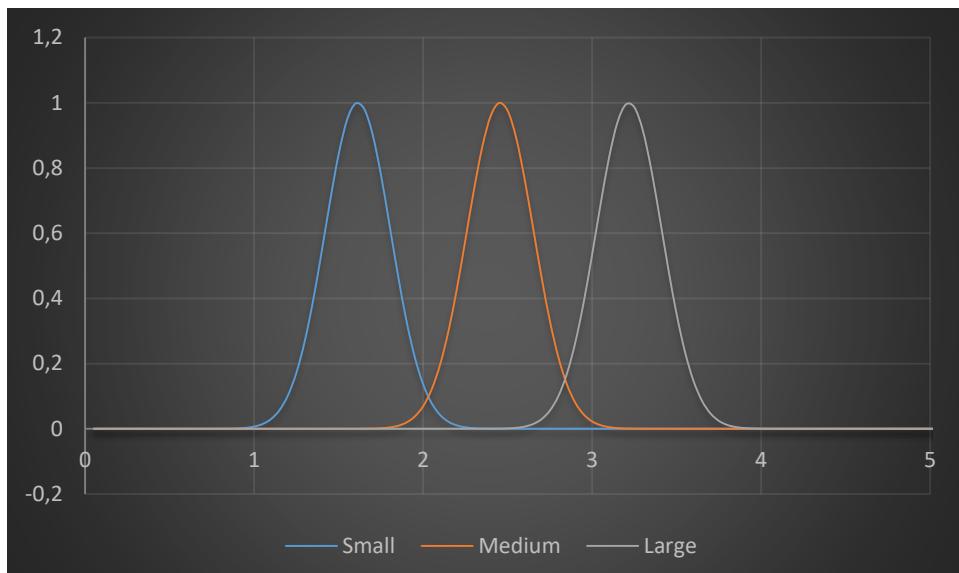
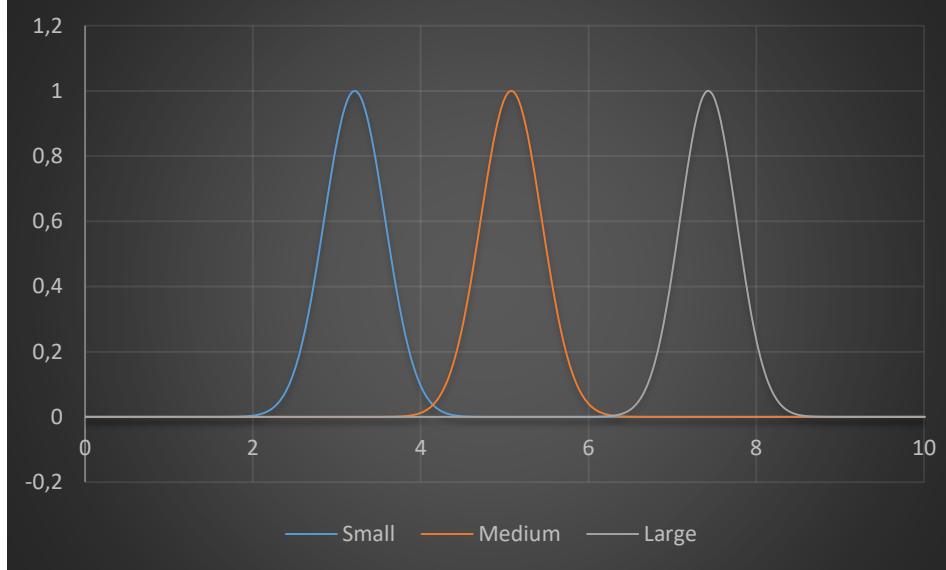
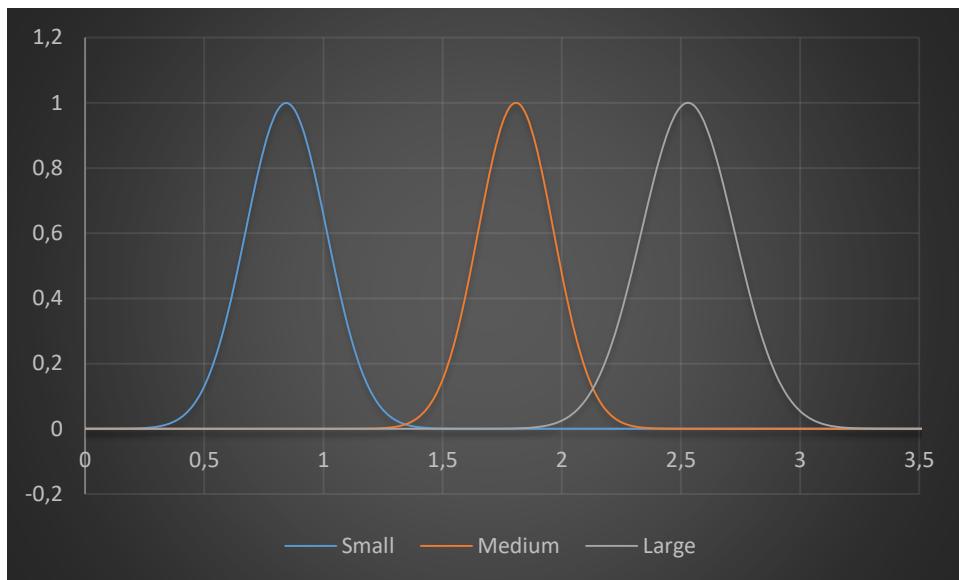


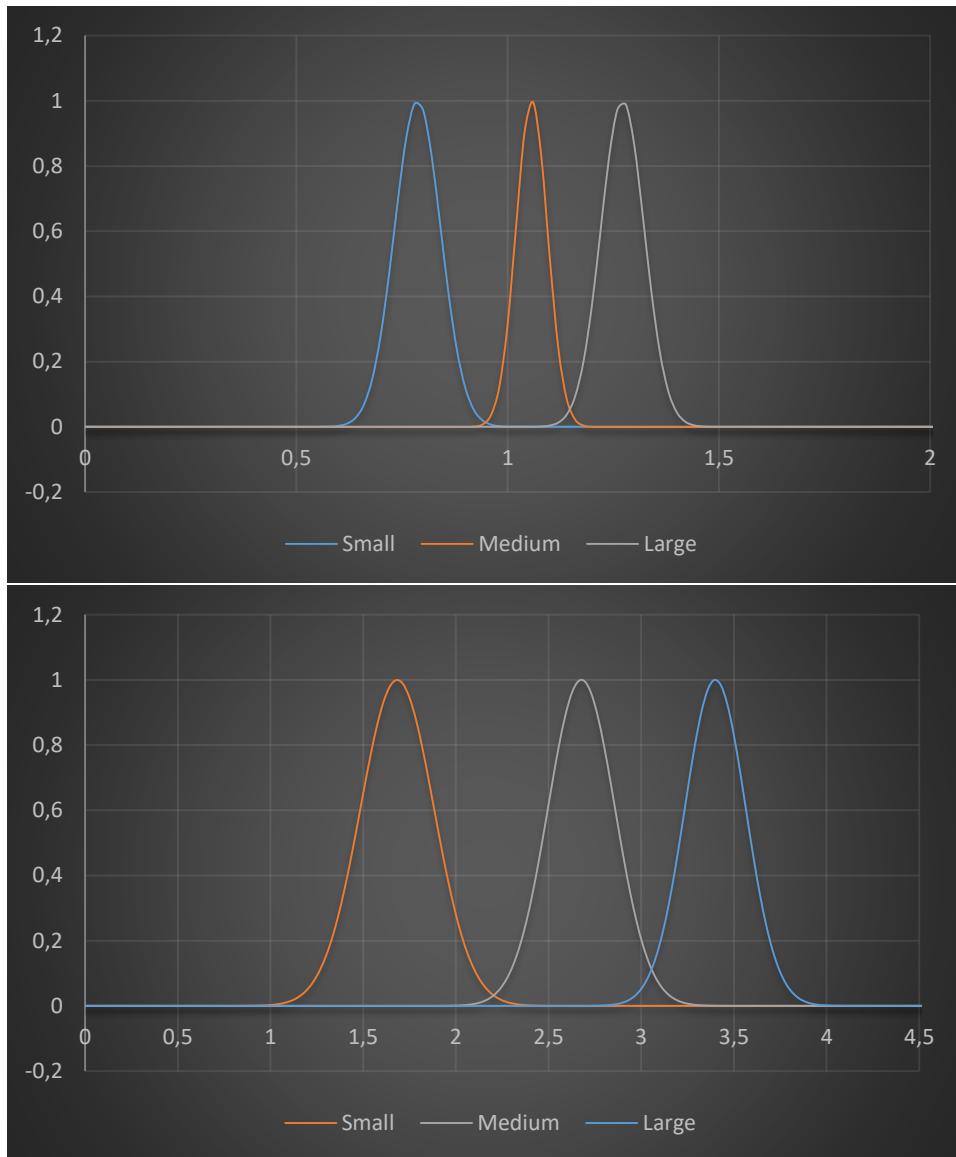
Membership function (Gaussian)











Rule 1

If $x_1 = \text{large}$ $x_2 = \text{small}$ $x_3 = \text{large}$ $x_4 = \text{small}$ $x_5 = \text{medium}$ $x_6 = \text{medium}$ $x_7 = \text{medium}$ $x_8 = \text{small}$ $x_9 = \text{medium}$ $x_{10} = \text{medium}$ $x_{11} = \text{medium}$ $x_{12} = \text{large}$ $x_{13} = \text{large}$ Then A

Rule 2

If $x_1 = \text{small}$ $x_2 = \text{small}$ $x_3 = \text{medium}$ $x_4 = \text{medium}$ $x_5 = \text{small}$ $x_6 = \text{medium}$ $x_7 = \text{medium}$ $x_8 = \text{small}$ $x_9 = \text{small}$ $x_{10} = \text{small}$ $x_{11} = \text{medium}$ $x_{12} = \text{medium}$ $x_{13} = \text{small}$ Then B

Rule 3

If $x_1 = \text{small}$ $x_2 = \text{medium}$ $x_3 = \text{large}$ $x_4 = \text{medium}$ $x_5 = \text{small}$ $x_6 = \text{small}$ $x_7 = \text{small}$ $x_8 = \text{medium}$ $x_9 = \text{small}$ $x_{10} = \text{medium}$ $x_{11} = \text{small}$ $x_{12} = \text{small}$ $x_{13} = \text{small}$ Then C

	Family A	Family B	Family C	Good not good
	A	B	C	Good
	A	B	C	Good
	A	B	C	Good
	A	other	C	Not good
	A	other	C	Not good
	A	other	C	Not good
	B	B	C	Not good
	A	B	C	Good
	B	B	C	Not good
	A	C	C	Not good
	other	B	C	Not good
	A	B	C	Good
	A	other	C	Not good
	A	other	C	Not good
	A	B	C	Good
	A	B	C	Good
	A	C	C	Not good
	A	C	C	Not good
	A	B	C	Good
	A	B	C	Good
	A	B	C	Good
	B	other	C	Not good
	B	B	C	Not good
	A	B	C	Good
	A	other	C	Not good
	B	B	C	Not good
	A	B	C	Good
	B	B	C	Not good
	A	B	C	Good
	B	B	C	Not good
	A	B	C	Good
	A	B	C	Good
	A	other	C	Not good
	A	B	C	Good
	A	C		
	A	B		
	A	B		
	A	B		
	A	other		
	A	B		
	A	B		
	A	other		
	A	B		
	A	B		
		C		
		B		
		B		
		other		
		other		

Success rate		C		
		B		
		B		
		B		
		other		
		B		
		C		
	81%	62.5%	100%	45%