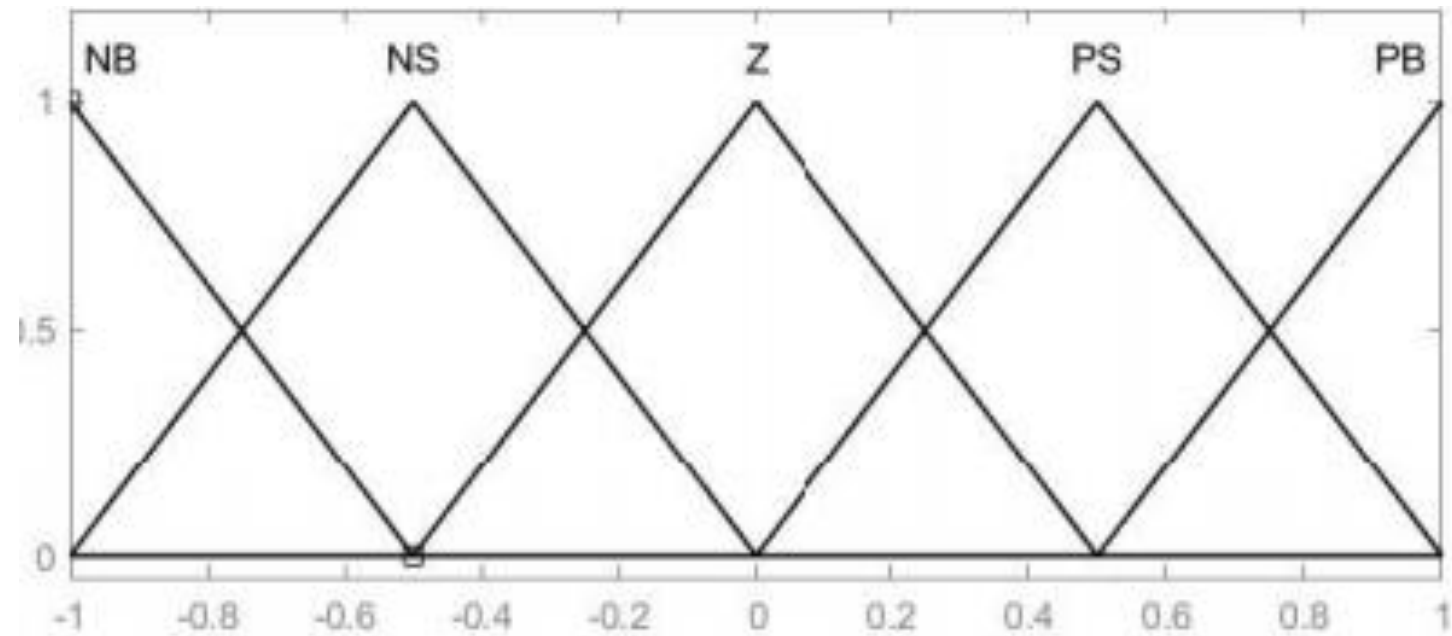
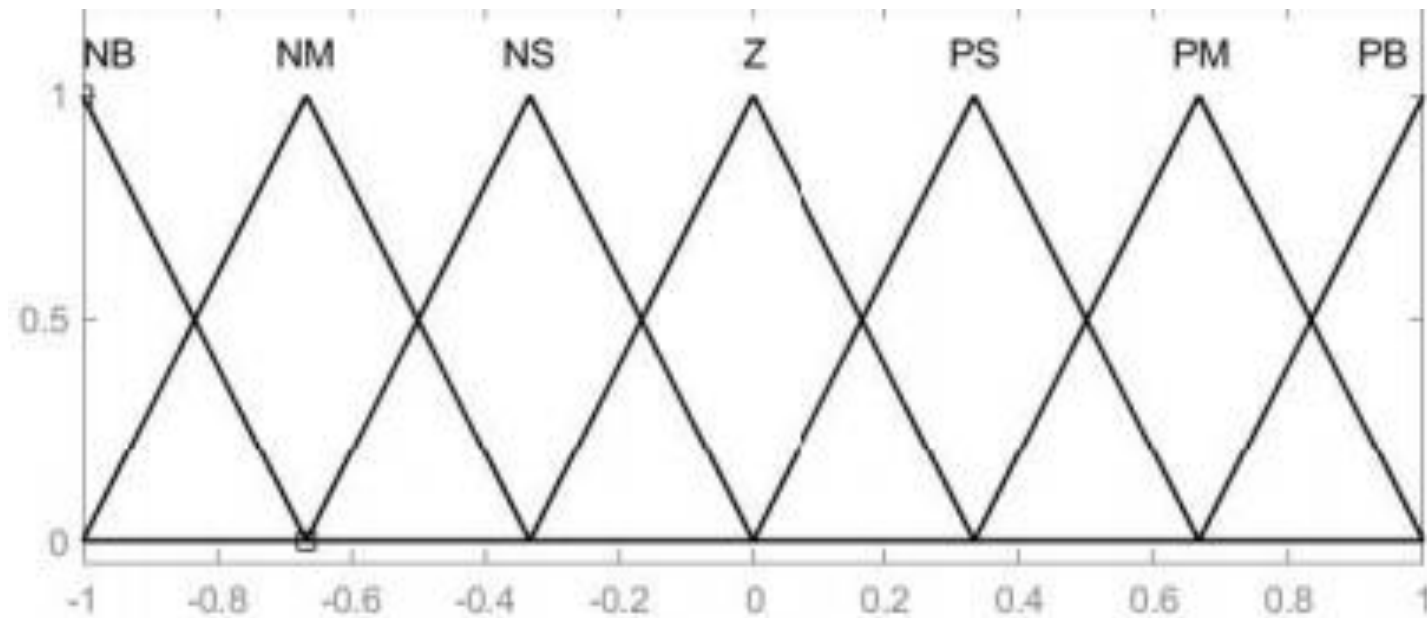

GA ALGORITHM EXAMPLE

MEMBERSHIP FUNCTION FOR INPUTS



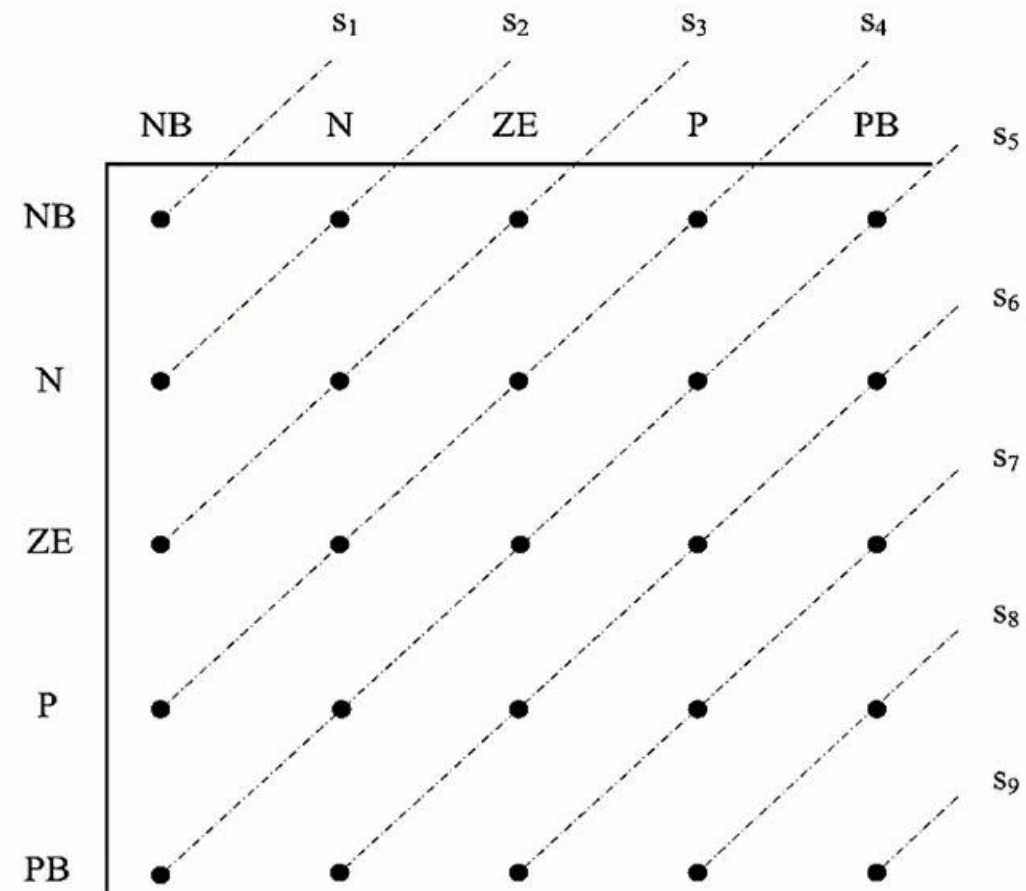
MEMBERSHIP FUNCTION FOR OUTPUT



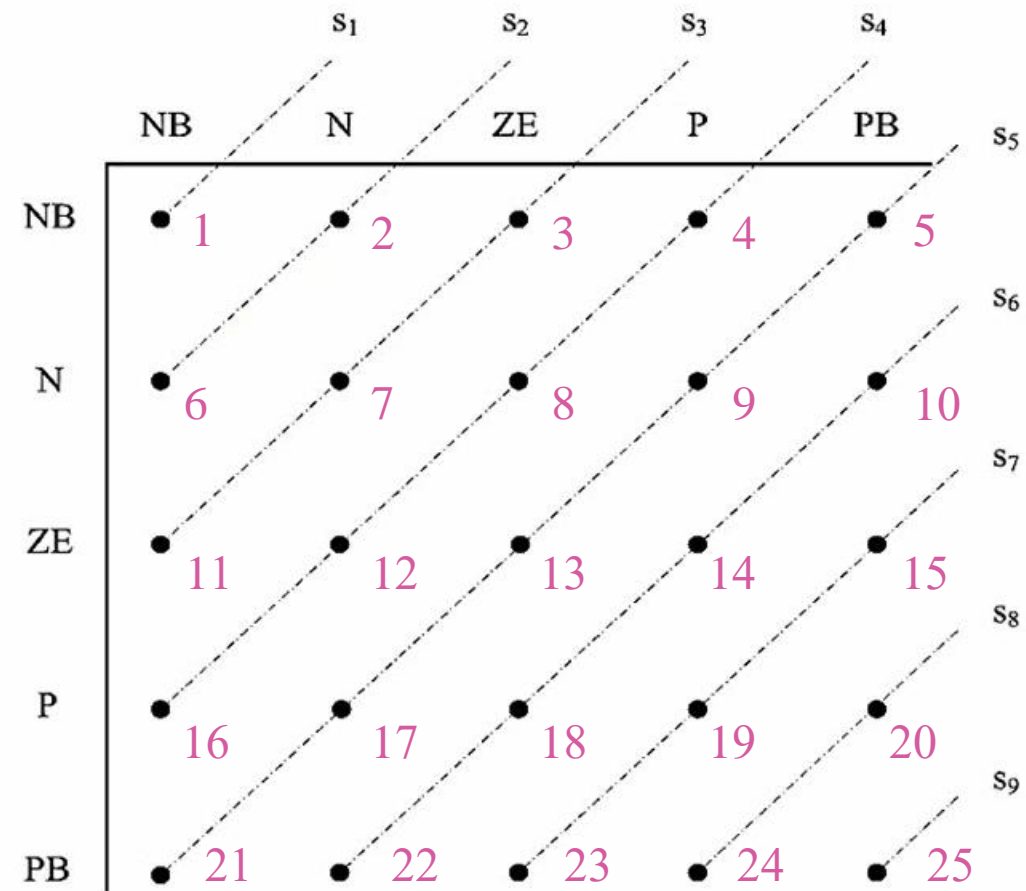
FUZZY RULES

$\Delta e/e$	NB	NS	Z	PS	PB
NB	NB	NM	NS	NS	Z
NS	NM	NS	NS	Z	PS
Z	NS	NS	Z	PS	PS
PS	NS	Z	PS	PS	PM
PB	Z	PS	PS	PM	PB

FUZZY RULES DATABASE



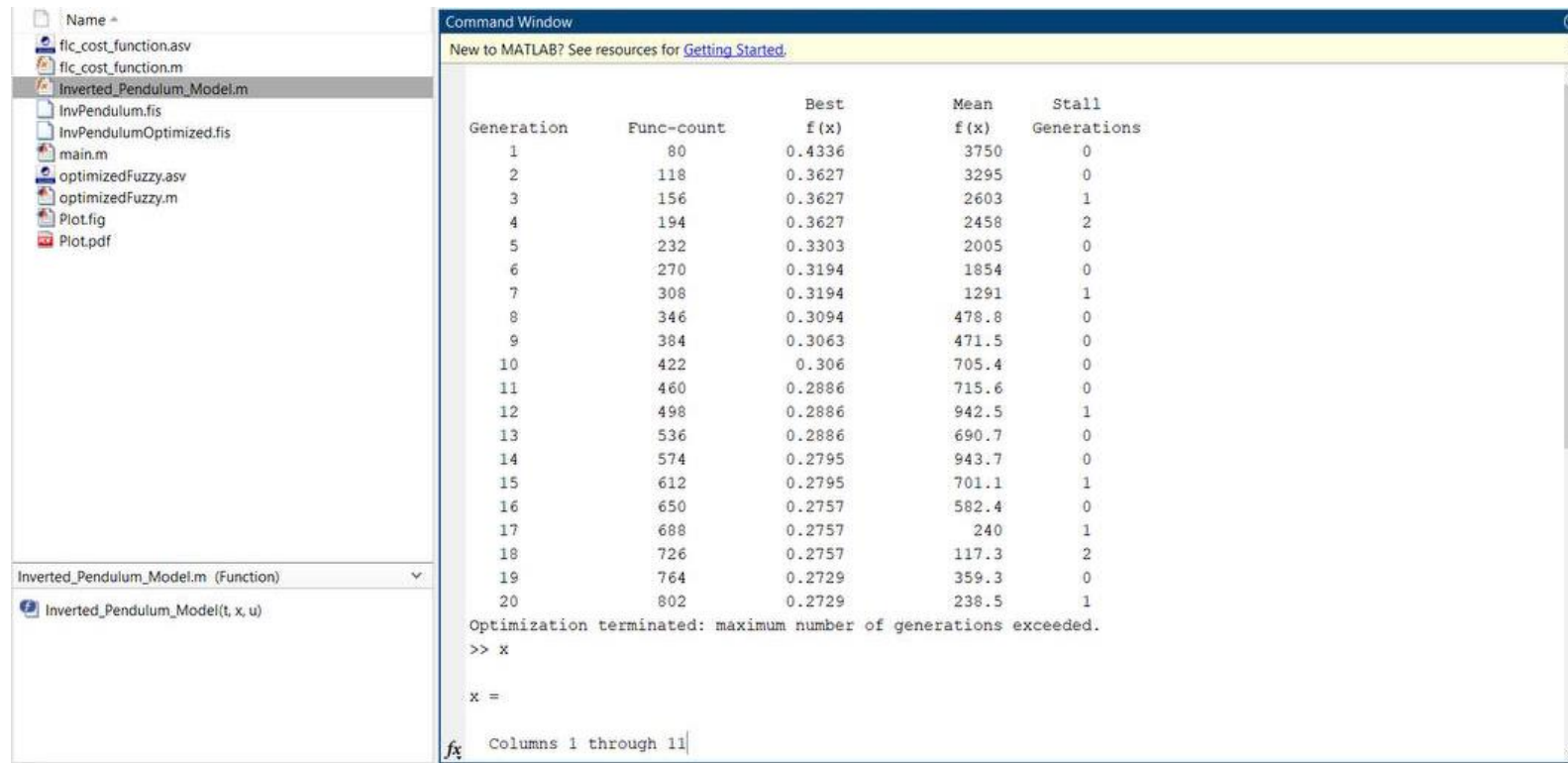
BASE OF FUZZY RULES



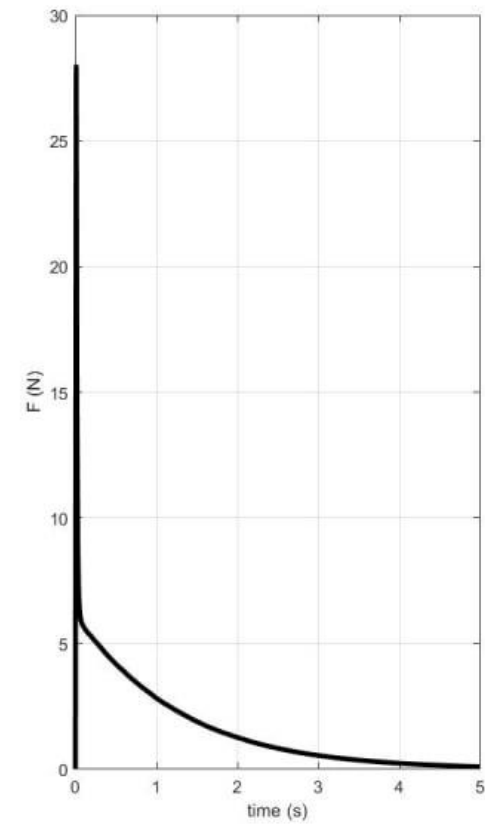
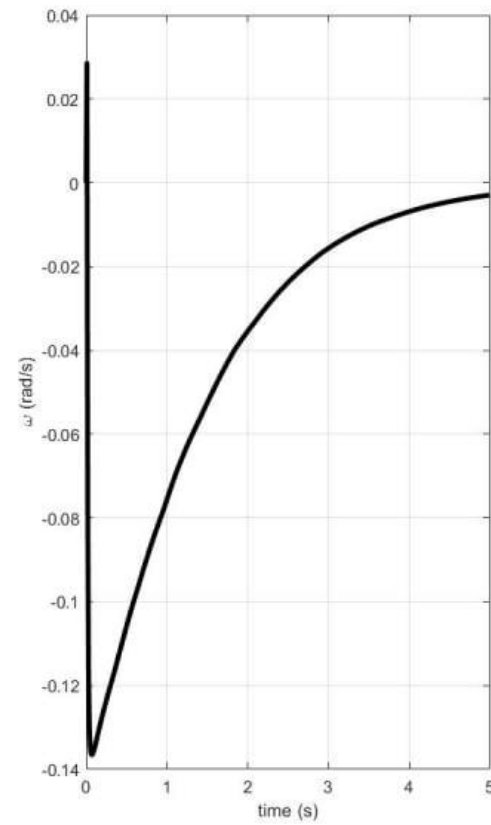
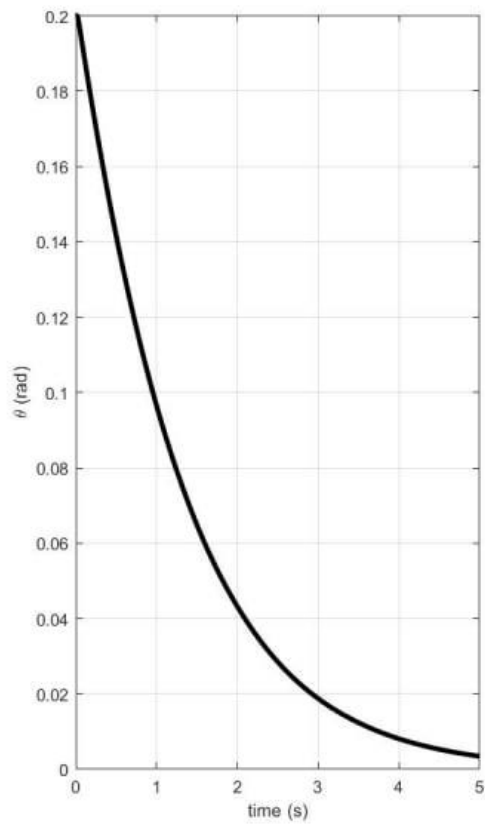
DECISION MAKING PARAMETERS

- 5 for fuzzy rules database
- 2 for mfs of inputs
- 2 for mfs of output
- 3 for input/output gain

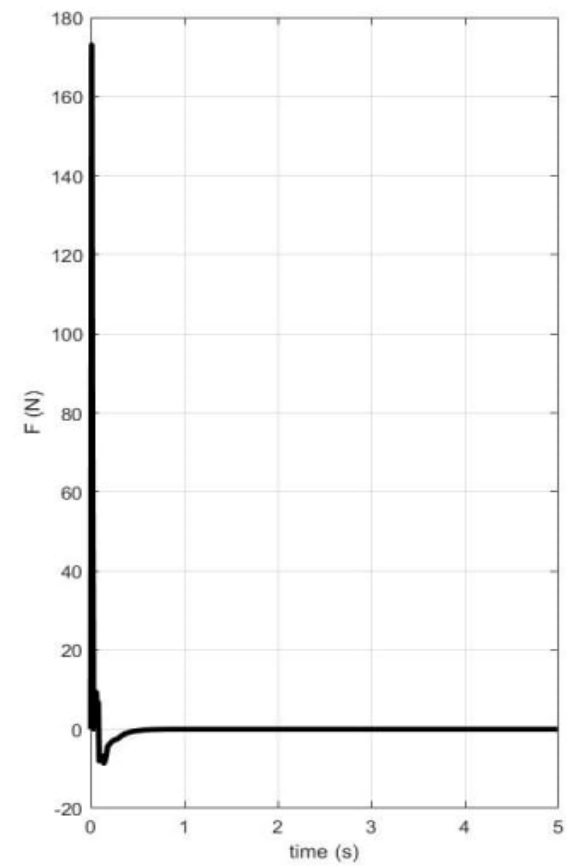
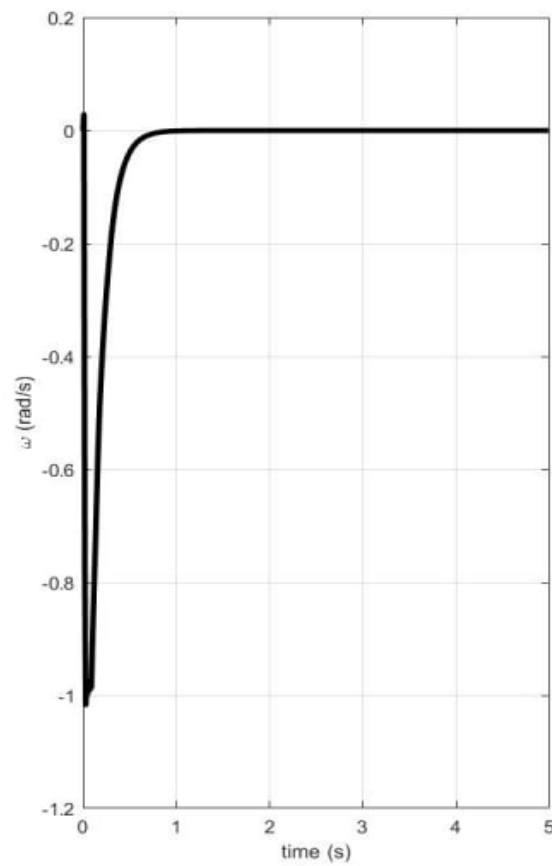
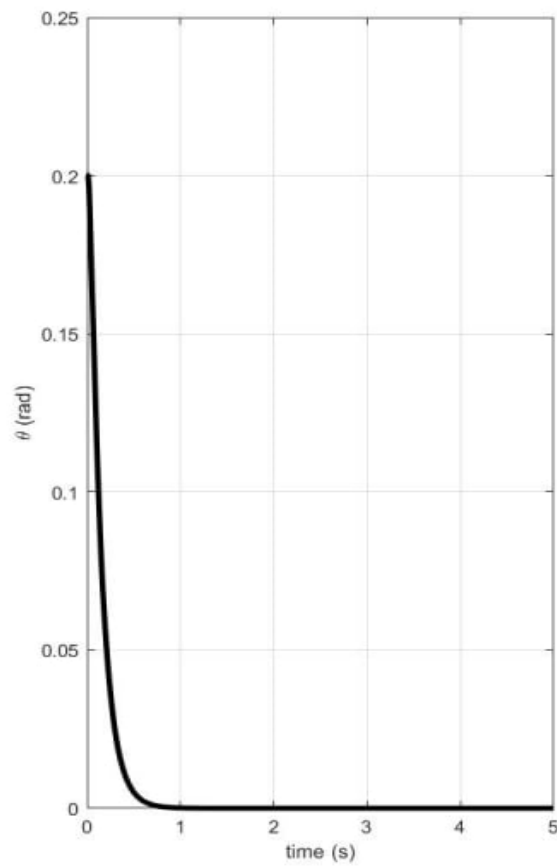
MATLAB RESULTS



NORMAL RESULTS



OPTIMIZED RESULTS





THANKS FOR YOUR ATTENTION