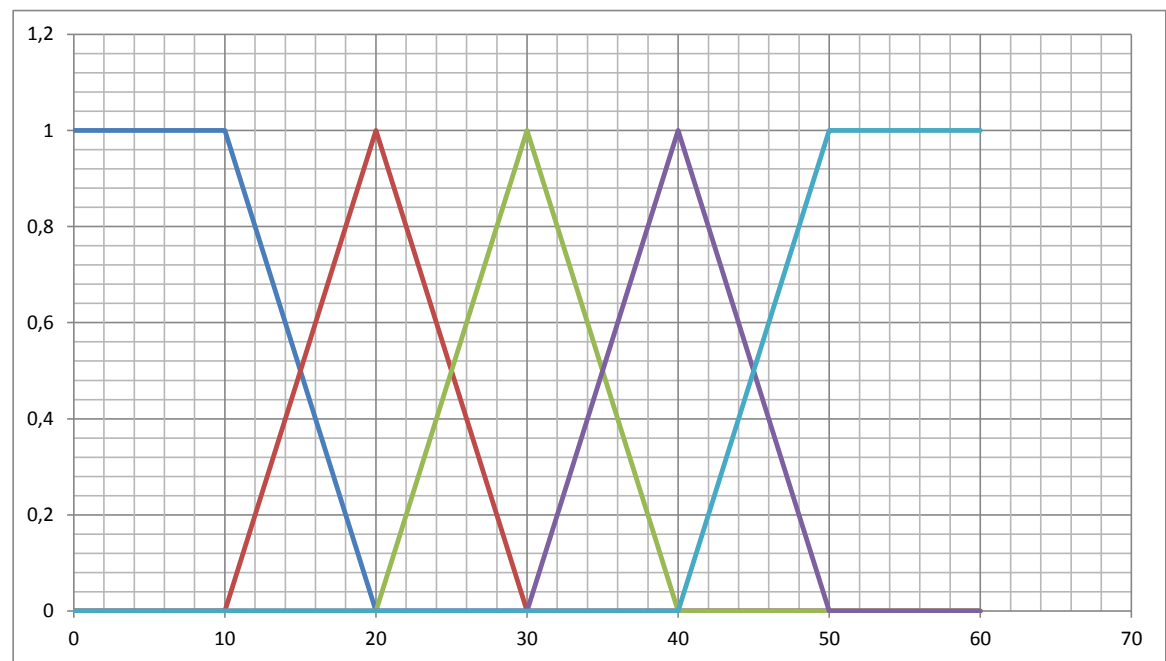


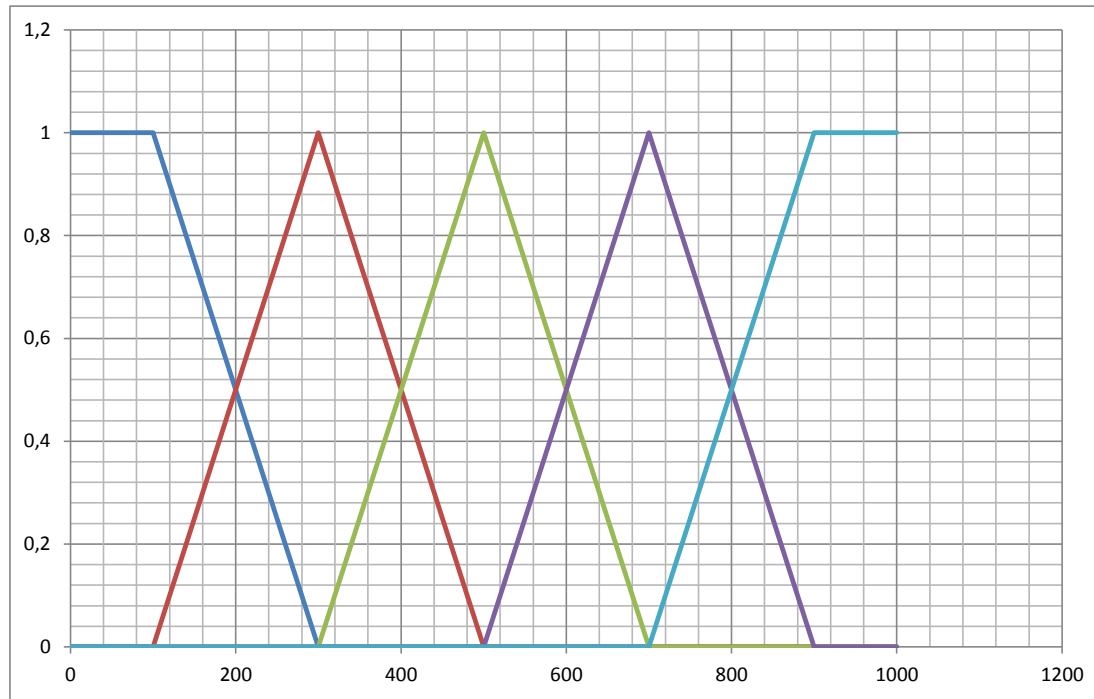
Speed	0	2,5	5	7,5	10	12,5	15	17,5	20	22,5	25	27,5	30	32,5	35	37,5	40	42,5	45	47,5	50	52,5	55	58	60
very slow	1	1	1	1	1	0,75	0,5	0,25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
slow	0	0	0	0	0	0,25	0,5	0,75	1	0,75	0,5	0,25	0	0	0	0	0	0	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0	0	0	0,25	0,5	0,75	1	0,75	0,5	0,25	0	0	0	0	0	0	0	0	0
fast	0	0	0	0	0	0	0	0	0	0	0	0	0	0,25	0,5	0,75	1	0,75	0,5	0,25	0	0	0	0	0
very fast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,25	0,5	0,75	1	1	1	1	1

i	1	5	2	3	4
X(i)	10	40	10	20	30
X(i+1)	20	50	30	40	50



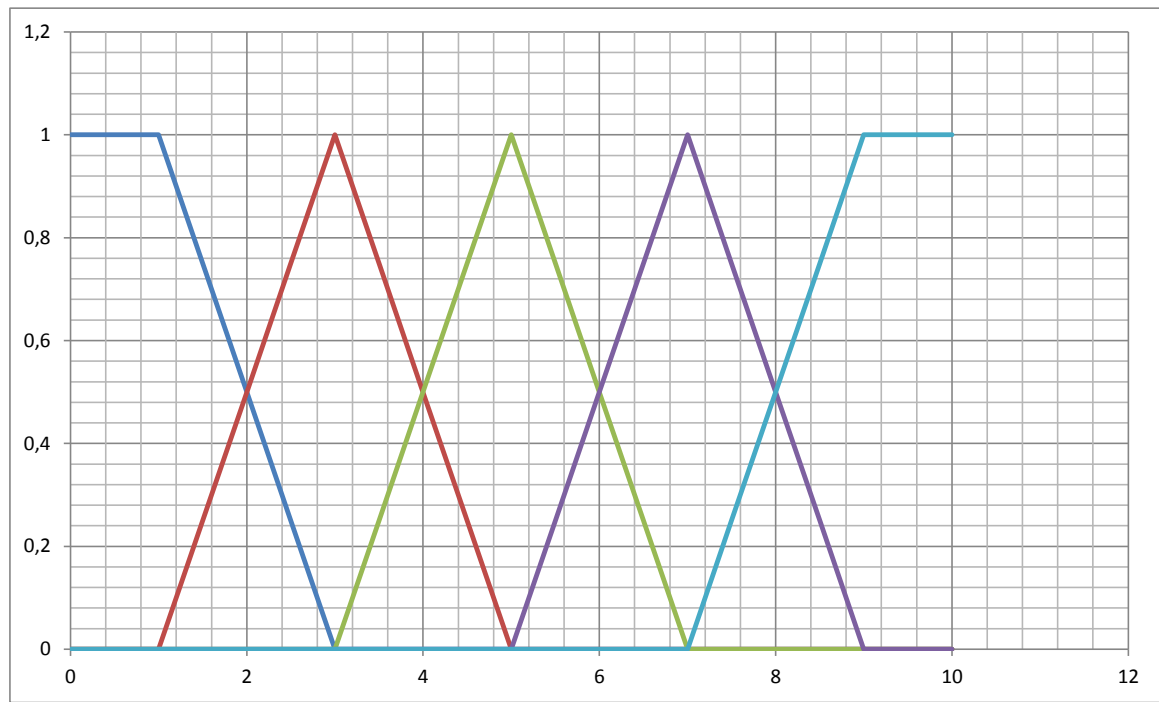
Distance	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
very shot	1	1	1	0,75	0,5	0,25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
short	0	0	0	0,25	0,5	0,75	1	0,75	0,5	0,25	0	0	0	0	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0	0,25	0,5	0,75	1	0,75	0,5	0,25	0	0	0	0	0	0	0
far	0	0	0	0	0	0	0	0	0	0	0	0,25	0,5	0,75	1	0,75	0,5	0,25	0	0	0
very far	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,25	0,5	0,75	1	1	1

i	1	5	2	3	4
X(i)	100	700	100	300	500
X(i+1)	300	900	500	700	900



Brake	0	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5	10
very weak	1	1	1	0,75	0,5	0,25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
weak	0	0	0	0,25	0,5	0,75	1	0,75	0,5	0,25	0	0	0	0	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0	0,25	0,5	0,75	1	0,75	0,5	0,25	0	0	0	0	0	0	0
strong	0	0	0	0	0	0	0	0	0	0	0	0,25	0,5	0,75	1	0,75	0,5	0,25	0	0	0
very strong	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,25	0,5	0,75	1	1	1

i	1	5	2	3	4
X(i)	1	7	1	3	5
X(i+1)	3	9	5	7	9



#### Sets of rules:

IF speed is very slow AND distance is very long THEN brake is very weak  
 IF speed is very slow AND distance is long THEN brake is very weak  
 IF speed is very slow AND distance is medium THEN brake is weak  
 IF speed is very slow AND distance is short THEN brake is weak  
 IF speed is very slow AND distance is very short THEN brake is medium  
 IF speed is slow AND distance is very long THEN brake is very weak  
 IF speed is slow AND distance is long THEN brake is very weak  
 IF speed is slow AND distance is medium THEN brake is weak  
 IF speed is slow AND distance is short THEN brake is weak  
 IF speed is slow AND distance is very short THEN brake is medium  
 IF speed is medium AND distance is very long THEN brake is weak  
 IF speed is medium AND distance is long THEN brake is weak  
 IF speed is medium AND distance is medium THEN brake is medium  
 IF speed is medium AND distance is short THEN brake is strong  
 IF speed is medium AND distance is very short THEN brake is strong  
 IF speed is fast AND distance is very long THEN brake is weak  
 IF speed is fast AND distance is long THEN brake is medium  
 IF speed is fast AND distance is medium THEN brake is strong  
 IF speed is fast AND distance is short THEN brake is strong  
 IF speed is fast AND distance is very short THEN brake is very strong  
 IF speed is very fast AND distance is very long THEN brake is medium  
 IF speed is very fast AND distance is long THEN brake is strong  
 IF speed is very fast AND distance is very medium THEN brake is strong  
 IF speed is very fast AND distance is short THEN brake is very strong  
 IF speed is very fast AND distance is very short THEN brake is very strong

#### Examples of data:

$$\mu = \min(\max(\mu_{\text{speed}}) * \max(\mu_{\text{dist}})); \max(\mu_{\text{brake}}))$$

	1	2	3	4	5	6	7	8	9	10	11
Speed	0	6	12	18	24	30	36	42	48	54	60
max( $\mu_{\text{sp}}$ )	1	1	0,8	0,8	0,6	1	0,6	0,8	0,8	1	1
Distance	0	100	200	300	400	500	600	700	800	900	1000
max( $\mu_{\text{dis}}$ )	1	1	0,5	1	0,5	1	0,5	1	0,5	1	1
Break	0	1	2	3	4	5	6	7	8	9	10
max( $\mu_{\text{br}}$ )	1	1	0,5	1	0,5	1	0,5	1	0,5	1	1
$\mu$	1	1	0,4	0,8	0,3	1	0,3	0,8	0,4	1	1

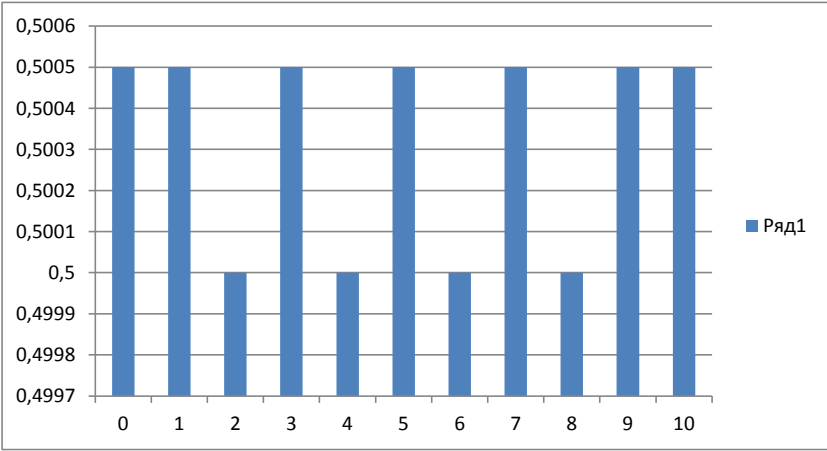
We fix the speed and a distance:

$\mu_{\text{speed}}$	$\mu_{\text{speed}}(37)$	0,7
$\mu_{\text{distance}}$	$\mu_{\text{distance}}(557)$	0,715

$\max(\mu_{\text{speed}}) * \max(\mu_{\text{dist}}) = 0,5005$

Break	0	1	2	3	4	5	6	7	8	9	10
$\max(\mu_{\text{br}})$	1	1	0,5	1	0,5	1	0,5	1	0,5	1	1
$\mu$	0,5005	0,5005	0,5	0,5005	0,5	0,5005	0,5	0,5005	0,5	0,5005	0,5005

$\mu * \text{break}$	0	0,5005	1	1,5015	2	2,5025	3	3,5035	4	4,5045	5,005
----------------------	---	--------	---	--------	---	--------	---	--------	---	--------	-------



Center of Gravity:	$\Sigma(\mu * \text{break}) / \Sigma \mu$	5
--------------------	---	---